



Selection Guide

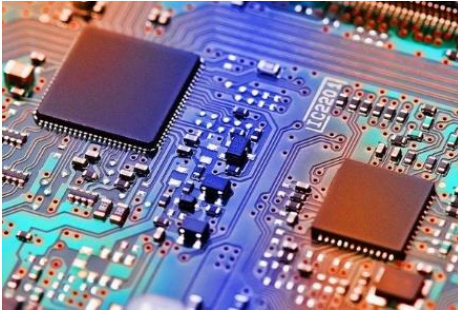
DC/DC

AC/DC

PMIC

Battery

Module



INDUSTRY 4.0



Lighting

Backlighting

MCU

ESD

Sensor

Motor

PLD

Audio

Gauge

SAR

Q2 2024



“

Silergy Corp was founded in 2008 and completed its IPO in 2013. By pursuing technology innovation and global expansion, Silergy has become the performance leader in the analog IC industry with annual growth rate of over 30% in the past 10 years.

The main products include: DC/DC, AC/DC, PMIC, LED lighting, BMS, light sensor, motor driver, audio power amplifier, power module, protection switch, Energy measurement, metering and signal chains solutions.

Silergy has the industry-leading process technology to design innovative mixed-signal and analog IC. Our products are widely used in automotive, industrial, consumer, computing and telecom equipment. We have always been committed to providing our customers with better performance and higher reliability analog IC.

”

IMPORTANT NOTICE

Right to make changes. Silergy and its subsidiaries (hereafter Silergy) reserve the right to change any information published in this document, including but not limited to circuitry, specification and/or product design, manufacturing or descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to Silergy's standard terms and conditions of sale.

Applications. Application examples that are described herein for any of these products are for illustrative purposes only. Silergy makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification. Buyers are responsible for the design and operation of their applications and products using Silergy products. Silergy or its subsidiaries assume no liability for any application assistance or designs of customer products. It is customer's sole responsibility to determine whether the Silergy product is suitable and fit for the customer's applications and products planned. To minimize the risks associated with customer's products and applications, customer should provide adequate design and operating safeguards. Customer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Silergy assumes no liability related to any default, damage, costs or problem in the customer's applications or products, or the application or use by customer's third-party buyers. Customer will fully indemnify Silergy, its subsidiaries, and their representatives against any damages arising out of the use of any Silergy components in safety-critical applications. It is also buyers' sole responsibility to warrant and guarantee that any intellectual property rights of a third party are not infringed upon when integrating Silergy products into any application. Silergy assumes no responsibility for any said applications or for any use of any circuitry other than circuitry entirely embodied in a Silergy product.

Limited warranty and liability. Information furnished by Silergy in this document is believed to be accurate and reliable. However, Silergy makes no representation or warranty, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. In no event shall Silergy be liable for any indirect, incidental, punitive, special or consequential damages, including but not limited to lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges, whether or not such damages are based on tort or negligence, warranty, breach of contract or any other legal theory. Notwithstanding any damages that customer might incur for any reason whatsoever, Silergy' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Standard Terms and Conditions of Sale of Silergy.

Suitability for use. Customer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of Silergy components in its applications, notwithstanding any applications-related information or support that may be provided by Silergy. Silergy products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an Silergy product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Silergy assumes no liability for inclusion and/or use of Silergy products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Terms and conditions of commercial sale. Silergy products are sold subject to the standard terms and conditions of commercial sale, as published at <http://www.silergy.com/stdterms>, unless otherwise agreed in a valid written individual agreement specifically agreed to in writing by an authorized officer of Silergy. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Silergy hereby expressly objects to and denies the application of any customer's general terms and conditions with regard to the purchase of Silergy products by the customer.

No offer to sell or license. Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights. Silergy makes no representation or warranty that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right. Information published by Silergy regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from Silergy under the patents or other intellectual property of Silergy.

For more information, please visit: www.silergy.com

CONTENT

01 DC/DC

Single Output Step Down (Buck) Converter $V_{IN} \text{ Max} < 7V$	7-10
Dual Output Step Down (Buck) Converter $V_{IN} \text{ Max} < 7V$	10
Single Output Step Down (Buck) Converter $16V < V_{IN} \text{ Max} \leq 18V$	11-12
Single Output Step Down (Buck) Converter $23V \leq V_{IN} \text{ Max} \leq 24V$	12-13
Single Output Step Down (Buck) Converter $27V \leq V_{IN} \text{ Max} \leq 30V$	14
Single Output Step Down (Buck) Converter $36V \leq V_{IN} \text{ Max} \leq 40V$	15
Single Output Step Down (Buck) Converter $V_{IN} \text{ Max} \geq 50V$	15
Single Output Step Up (Boost) Converter (Low Voltage)	16
Single Output Step Up (Boost) Converter (High Voltage)	17
DC/DC PWM Controller (External Switch)	17
Step Up/Down Regulator DC/DC (Power Switch Integrated)	18
LDO Regulator	18
Protection Switch	19-21
Supervisor& Reset IC	22

02 Battery

Switching Charger	24-26
Fast Charge	27
BMS	27
Gauge IC	27

CONTENT

03 PMIC

Low Voltage PMIC	29
High Voltage PMIC	30
Panel PMIC	30-32

05 AC/DC

Backlighting	34
LED Lighting (AC/DC)	35-36
LED Lighting (DC/DC)	37
LED Lighting (MR16)	38
AC/DC Charger and Adapter	39-43

06 Motor Driver

Motor Driver	45
--------------	----

07 Signal Chain

Class-D Amplifier	47
Headphone or Line Driver	48
Light Sensor	49
ESD Protection	50-54
Programmable Logic Device	55



DC/DC

Single Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY8018ADFC	2.5	5.5	0.45	/	0.6	$\pm 2\%$	400/200	1.5	DFN2 $\times$ 2-8	Power Good Indicator, Ultra Low Quiescent Current
SY8851DFC	2.2	5.5	0.5	1	1.2	$\pm 1.5\%$	280/120	0.4	DFN2 $\times$ 2-8	Power Good Indicator, Output Auto Discharge
SY8078BDTC	1.85	5.5	0.6	3	0.4	$\pm 2\%$	350/250	40	DFN1.45 $\times$ 1-6	
SY8088IAAC	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	260/170	50	SOT23-5	Output Auto Discharge
SY8088A1AAC	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	260/160	50	SOT23-5	
SY8080AAC	2.5	5.5	1	3	0.6	$\pm 2\%$	270/160	40	SOT23-5	
SY8077AAC	2.5	6.5	1	1.5	0.6	$\pm 2\%$	260/170	40	SOT23-5	
SY8891ARC	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	170/100	55	SOT563	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY8891EARC	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	170/100	/	SOT563	Power Good Indicator, FCCM, Hic-cup SCP, Auto Discharge
SY8061IDEC	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	220/130	50	DFN2 $\times$ 2-6	Auto Discharge
SY8081DQC	2.5	5.5	1	2.5	0.6	$\pm 2\%$	230/150	40	DFN1.5 $\times$ 1.5-6	Output Auto Discharge
SY8871BDFC	2.4	6	1	1	1.2	$\pm 1.5\%$	300/130	400nA@STB=0 15 μ A @STB=1	DFN2 $\times$ 2-8	Power Good Indicator, ultra low I_Q , Hic-cup SCP, Auto Discharge
SY8841ARC	2.6	5.5	1.5	2		$\pm 1\%$	180/100	55	SOT563	Output Auto Discharge
SY8842QWC	2.6	5.5	1.5	2	0.6	$\pm 1\%$	180/100	55	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Auto Discharge
SY8089A1AAC	2.7	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	50	SOT23-5	Output Auto Discharge
SY8089IAAC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	50	SOT23-5	Latch-off Protection
SY8089E1AAC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	/	SOT23-5	Hic-cup SCP, Auto Discharge
SY8002A1ABC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	50	SOT23-6	Power Good Indicator, Hic-cup Protection
SY8002IABC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	50	SOT23-6	Power Good Indicator, Latch-off Protection
SY8002E1ABC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	/	SOT23-6	Power Good Indicator, Hic-cup SCP, Output Auto Discharge
SY8032IABC	2.7	5.5	2	1.5	0.6	$\pm 1.5\%$	130/85	50	SOT23-6	Power Good Indicator
SY8892ARC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	125/75	55	SOT563	Power Good Indicator, Hic-cup SCP, Auto-discharge
SY8892EARC	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$	125/75	/	SOT563	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY80072ART	2.5	5.5	2	1.5	0.6	$\pm 1.5\%$ (-40~125 $^{\circ}$ C)	45/35	21	SOT563	PFM Mode for Light Load Efficiency, Auto Discharge, ultra low I_Q
SY80073ART	2.5	5.5	3	1.5	0.6	$\pm 1.5\%$ (-40~125 $^{\circ}$ C)	45/35	21	SOT563	PFM Mode for Light Load Efficiency, Auto Discharge, ultra low I_Q

Single Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY80063ABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	SOT23-6	Power Good Indicator, Latch off Protection, Auto Discharge
SY80063AABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	SOT23-6	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY80063EABC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	/	SOT23-6	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY8883DFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Latch off Protection, Auto Discharge
SY8883ADFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY8883EDFC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	/	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Forced PWM, Auto Discharge
SY8003CDFC	2.7	5.5	3	3	0.6	$\pm 2\%$	100/80	55	DFN2 $\times$ 2-8	Power Good Indicator
SY8893ARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	50	SOT563	Power Good Indicator, Output Auto Discharge
SY8893LARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	50	SOT563	Power Good Indicator, Latch-off Protection, Output Auto Discharge
SY8893EARC	2.5	5.5	3	1.2	0.6	$\pm 1.5\%$	100/60	/	SOT563	Power Good Indicator, Hic-cup SCP, Forced PWM, Output Auto Discharge
SY8053DBC	2.5	5.5	3	1	0.6	$\pm 1.5\%$	85/60	55	DFN3 $\times$ 3-10	Power Good Indicator, Latch off Protection, Auto Discharge
SY8843QWC	2.7	5.5	3	1.5	0.6	$\pm 1\%$	85/50	65	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Auto Discharge
SY8843LQWC	2.7	5.5	3	1.5	0.6	$\pm 1\%$	85/50	65	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Auto Discharge
SY8859QWC	2.7	5.5	3	1	0.6	$\pm 1\%$	85/50	55	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Light Load Mode Selection
SY8859LQWC	2.7	5.5	3	1	0.6	$\pm 1\%$	85/50	55	QFN1.5 $\times$ 1.5-7	Power Good Indicator, Light Load Mode Selection
SY80053DQC	2.4	5.5	3	2.2	0.6	$\pm 1\%$	35/25	16	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge, PFM Mode
SY80003DQD	2.5	5.5	3	2.2	0.6	$\pm 1\%$	38/30	21	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge
SY80054DQC	2.4	5.5	4	2.2	0.6	$\pm 1\%$	35/25	16	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge, PFM Mode
SY80004DQD	2.5	5.5	4	2.2	0.6	$\pm 1\%$	38/30	21	DFN1.5 $\times$ 1.5-6	Power Good Indicator, Hic-cup SCP/OVP/OTP, Auto Discharge
SY8884ADFC	2.5	5.5	4	1	0.6	$\pm 1.5\%$	85/60	55	DFN2 $\times$ 2-8	Power Good Indicator, Hic-cup SCP, Auto Discharge
SY8824BAIC	2.6	5.5	4	1.8	/	$\pm 1\%$	70/40	80	TSOT23-8	Programmable Output Voltage: 0.7625V to 1.55V in 12.5mV Steps; Default 1.15V Output Voltage
SY8824CAIC	2.6	5.5	4	1.8	/	$\pm 1\%$	70/40	80	TSOT23-8	Programmable Output Voltage: 0.7625V to 1.55V in 12.5mV Steps; Default 1.05V Output Voltage
SY8047QDC	2.5	5.5	4	1.25	0.6	$\pm 1.5\%$	75/55	18	QFN3 $\times$ 3-16	Power Good Indicator
SY8057DQDC	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current
SY8057FQDC	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch-off OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current
SY8856DFC	2.7	5.5	4	3	0.6	$\pm 1.5\%$	35/15	60	DFN2 $\times$ 2-8	Power Good Indicator

Single Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
SY80704SYC	2.5	6	4	2.4	0.6	$\pm 1.5\%$ (-40~125°C)	25/17	23	DFN2×2-7	Auto Discharge, hic-cup SCP
SY8825QUC	2.5	5.5	5	2	0.6	$\pm 1.5\%$	55/35	18	QFN2×1.5-8	Power Good Indicator
SY80706SYC	2.5	6	6	1	0.6	$\pm 1.5\%$ (-40~125°C)	22/12	23	DFN2×2-7	Auto Discharge, hic-cup SCP
SY8036DBC	2.7	5.5	6	1	0.6	$\pm 1.5\%$	50/40	150	DFN3×3-10	Power Good Indicator, EXT SS
SY8816DFC	2.75	6	6	1.2	0.6	$\pm 1.5\%$	35/15	60	DFN2×2-8	Power Good Indicator, OCP/UVLO/OTP Protections
SY8876DFC	2.7	6.5	6	1.2	0.6	$\pm 1.5\%$	38/15	60	DFN2×2-8	Power Good Indicator, OCP/UVLO/OTP
SY8827KPKC	2.5	5.5	6	2.4		$\pm 1.5\%$	28/17	65	CSP1.56×1.96-20	I ² C Programmable V_{OUT} : 0.7125V~ 1.5V in 12.5mV steps, ADDR: 1000001x
SY8810QQC	2.7	5.5	12	1.5		$\pm 1\%$	12/6	95	QFN3×3-12	Programmable Output Voltage: 0.6V to 1.5V in 11mV steps
SY8030LDEC*	2.5	5.5	0.6	2.25	0.6	$\pm 1.5\%$	300/200	50	DFN2×2-6	
SY8088AAC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	40	SOT23-5	
SY8088LACC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	40	TSOT23-5	
SY8010DEC*	2.5	5.5	1	1.5	0.6	$\pm 1.5\%$	200/150	50	DFN2×2-6	
SY8011ADQC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	230/150	40	DFN1.5×1.5-6	
SY8061ADEC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	260/170	60	DFN2×2-6	Auto Discharge
SY8065LABC*	2.5	5.5	1	1.5	0.6	$\pm 2\%$	250/200	90	SOT23-6	Power Good Indicator
SY8071AAC*	2.5	5.5	1	2	0.6	$\pm 2\%$	260/170	40	SOT23-5	
SY8011BDQC*	2.5	5.5	1.5	1.5	0.6	$\pm 2\%$	210/130	60	DFN1.5×1.5-6	
SY8030DEC*	2.5	5.5	1.5	2.25	0.6	$\pm 1.5\%$	200/150	50	DFN2×2-6	Ext Mode
SY8002EABC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	/	SOT23-6	Power Good Indicator, Force PWM
SY8003LDFC*	2.7	5.5	2	1	0.6	$\pm 2\%$	120/90	55	DFN2×2-8	Power Good Indicator
SY8079PABC*	2.7	6.5	2	1	0.6	$\pm 2\%$	125/95	55	SOT23-6	Power Good Indicator, Non-latch off OVP
SY8079AAC*	2.7	6.5	2	1	0.6	$\pm 2\%$	125/95	55	SOT23-5	3A Peak Load Current
SY8089AAAC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	55	SOT23-5	Non Latch off Protection
SY8089AAC*	2.7	5.5	2	1	0.6	$\pm 2\%$	110/80	55	SOT23-5	Latch off Protection
SY8032ABC*	2.7	5.5	2.5	1	0.6	$\pm 2\%$	100/80	80	SOT23-6	Power Good Indicator
SY8032EABC*	2.7	5.5	2.5	1	0.6	$\pm 2\%$	100/80	/	SOT23-6	Power Good Indicator, Force CCM
SY8003DFC*	2.7	5.5	3	1	0.6	$\pm 2\%$	110/80	55	DFN2×2-8	Power Good Indicator, Latch SCP/OVP

* Not recommended for new design

Single Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8003EDFC*	2.7	5.5	3	1	0.6	$\pm 2\%$	110/80	-	DFN2 $\times$ 2-8	Power Good Indicator, Force CCM
SY8003FDFC*	2.7	5.5	3	1	0.6	$\pm 1.5\%$	110/80	/	DFN2 $\times$ 2-8	Power Good Indicator
SY8003GDFC*	2.7	5.5	3	1	0.6	$\pm 1.5\%$	110/80	55	DFN2 $\times$ 2-8	Power Good Indicator, Latch SCP/OVP
SY8043AQDC*	2.7	5.5	3	1.25	0.6	$\pm 2\%$	75/55	18	DFN3 $\times$ 3-16	Power Good Indicator
SY8047LQDC*	2.5	5.5	3	1.25	0.6	$\pm 2\%$	75/55	18	QFN3 $\times$ 3-16	Power Good Indicator
SY8823QUC*	2.5	5.5	3.5	2	0.6	$\pm 1.5\%$	55/35	18	QFN2 $\times$ 1.5-8	Power Good Indicator
SY8057QDC*	2.5	5.5	4	1	/	/	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP
SY8057BQDC*	2.5	5.5	4	1	/	$\pm 1\%$	70/40	30	QFN3 $\times$ 3-16	Power Good Indicator, VID control, Latch OVP/SCP/OTP, 4A Continuous, 7A Peak Load Current

* Not recommended for new design

Dual Output Step Down (Buck) Converter V_{IN} Max < 7V

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8092ADBC	2.5	5.5	1A x2	2	0.6	$\pm 2\%$	220/180	35	DFN3 $\times$ 3-10	Individual EN
SY8831AIC	2.5	5.5	1A x2	1.5	0.6	$\pm 2\%$	260/180	45/55	TSOT23-8	Individual EN
SY8832AIC	2.5	5.5	2A x2	2	0.6	$\pm 2\%$	125/100	35/45	TSOT23-8	Individual EN
SY8024DCC	2.7	5.5	3A x2	1.5	0.6	$\pm 2\%$	105/85	80	DFN3 $\times$ 3-12	Individual EN
SY8821SAC	2.5	5.5	1A/1.5A	2	0.6	$\pm 2\%$	125/100	45	DFN2 $\times$ 1.5-8	Individual EN
SY8821BSAC	2.3	5.5	1Ax2	2	0.6	$\pm 2\%$	125/100	45	DFN2 $\times$ 1.5-8	Individual EN

Single Output Step down (Buck) Converter $16V < V_{IN}$ Max $\leq 18V$

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8120IABC	4.2	18	2	0.5	0.6	±1.5%	130/105	200	SOT23-6	Hic-cup SCP
SY81052ABC	4.2	18	2	0.5	0.6	±1.5%	130/105	200	SOT23-6	Hic-cup SCP, Low ripple in PFM
SY8121B1ABC	4.5	18	2	1.4	0.6	±1.5%	130/105	/	SOT23-6	Hic-cup SCP, FCCM
SY8121C1ABC	4.2	18	2	1.2	0.6	±1.5%	130/105	250	SOT23-6	Hic-cup SCP
SY8120E1ABC	4.5	18	2	0.5	0.6	±1.5%	130/105	/	SOT23-6	FCCM, Hic-cup SCP
NEW SY81103ABT	4.5	18	3	0.5	0.6	±1.5%	80/40	200	SOT23-6	Hic-cup SCP
SY8113IADC	4.2	18	3	0.5	0.6	±1.5%	80/40	200	TSOT23-6	Hic-cup SCP
SY8113B1ADC	4.5	18	3	1.4	0.6	±1.5%	80/40	/	TSOT23-6	Hic-cup SCP
SY8113C1ADC	4.2	18	3	1.2	0.6	±1.5%	80/40	270	TSOT23-6	Hic-cup SCP, Output Auto Discharge
SY8113E1ADC	4.5	18	3	0.5	0.6	±1.5%	80/40	/	TSOT23-6	FCCM, Hic-cup SCP
SY8113DAIC	4.5	18	3	0.5	0.6	±1.5%	80/40	100	TSOT23-8	Power Good Indicator, Hic-cup SCP, EXT SS
SY81003ADC	4.2	18	3	0.5	0.6	±1.0%	80/40	250	TSOT23-6	Hic-cup SCP, Output auto discharge
SY81003EADC	4.2	18	3	0.6	0.6	±1.0%	80/40	/	TSOT23-6	Hic-cup SCP, Output auto discharge
SY8104IADC	4.2	18	4	0.5	0.6	±1.5%	55/36	200	TSOT23-6	Hic-cup SCP
SY8105IADC	4.5	18	5	0.5	0.6	±1.5%	41/27	250	TSOT23-6	
SY8156IADC	4.5	18	6	0.4	0.6	±1.0%	29/19	200	TSOT23-6	Output Auto Discharge, SCP
SY81050RRC	2.85	18	12	0.5/ 0.75/1 / 1.25	0.6	±1.0%	15/4.5	540	QFN3×4-14	Power Good Indicator, selectable Hic-cup/Latch-off SCP, 12A Continuous/15A Peak Current Capability, Programmable Soft-start Time
SY81012VDC	2.7	16	12	0.6/ 0.8/1	0.6	±1.0% (-40~125°C)	12.6/4.3	650	QFN3×4-19	Power Good Indicator, Remote sense, Seamless ILMT, Pre-bias startup, FCCM/PFM, Hic-cup SCP, Programmable Soft-start Time
SY81020VDC	2.9	16	20	0.6/ 0.8/1	0.6	±1.0% (-40~125°C)	7.5/2.4	550	QFN3×4-19	Power good Indicator, Remote sense, Seamless ILMT, Pre-bias startup, FCCM/PFM, Hic-cup SCP, Programmable Soft-start Time
SY8120B1ABC*	4.5	18	2	0.5	0.6	±2.0%	130/120	400	SOT23-6	
SY8121ABC*	4.5	18	2	1	0.6	±2.0%	170/160	400	SOT23-6	
SY8121BABC*	4.35	18	2	1.2	0.6	±2.0%	170/160		SOT23-6	1.2MHz, FCCM
SY8121CABC*	4.5	18	2	1.2	0.6	±2.0%	130/120	400	SOT23-6	
SY8121DEC*	4.5	18	2	1	0.6	±2.0%	170/160	400	DFN2×2-6	

* Not recommended for new design

Single Output Step down (Buck) Converter 16V <V_{IN} Max ≤18V

Part Number	V _{IN}		I _{OUT} (Max) (A)	f _{SW} (MHz)	V _{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8113BADC*	4.5	18	3	0.5	0.6	±1.5%	80/40	100	TSOT23-6	Hic-cup SCP
SY8113CADC*	4.5	18	3	1	0.6	±1.5%	80/40	100	TSOT23-6	Hic-cup SCP
SY8113GADC*	4.5	18	3	0.5	0.6	±1.5%	80/40	100	TSOT23-6	Hic-cup SCP, FCCM
SY8104AADC*	4.5	18	4	0.5	0.6	±1.5%	50/30	100	TSOT23-6	Instant PWM architecture
SY8104ADC*	4.5	18	4	0.5	0.6	±1.5%	50/30	100	TSOT23-6	
SY8105AADC*	4.5	18	5	0.5	0.6	±1.5%	40/20	100	TSOT23-6	Instant PWM architecture
SY8105ADC*	4.5	18	5	0.5	0.6	±1.5%	50/30	100	TSOT23-6	
SY8182QCC*	4	18	12	0.2~1	0.6	±1.0%	18/6	/	QFN4×4-20	Power Good Indicator

* Not recommended for new design

Single Output Step down (Buck) Converter 23V ≤ V_{IN} Max ≤24V

Part Number	V _{IN}		I _{OUT} (Max) (A)	f _{SW} (MHz)	V _{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8232FAC	4.5	23	2	0.5	0.6	±1.5%	150/110	400	SO8	EXT SS, Hic-cup SCP
SY8233FCC	4.5	23	3	0.5	0.6	±1.5%	130/90	400	SO8E	EXT SS
SY8253ADC	4.5	23	3	0.5	0.6	±1.5%	105/50	100	TSOT23-6	Hic-cup SCP
SY8253AIC	4.5	23	3	0.5	0.6	±1.5%	105/50	100	TSOT23-8	Power Good Indicator, EXT SS, Hic-cup SCP
SY8254RAC	4	23	4	0.6	0.6	±1.0%	85/35	130	QFN3×3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY8284RAC	4	23	4	0.5	0.6	±1.0%	85/35	121	QFN3×3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY8284BRAC	4	23	4	0.6	Fixed 3.338	±1.0%	85/35	80	QFN3×3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY8284CRAC	5.5	23	4	0.6	Fixed 5.1	±1.0%	85/35	115	QFN3×3-20	Power Good Indicator, Output Discharge, SCP/OVP,UVLO
SY8386ARHC	4.5	24	6	0.6	0.6	±1.0%	38/19	100	QFN2.5×2.5-16	Power Good Indicator, Output Discharge, Hic-cup UVP
SY8386RHC	4.5	24	6	0.5	0.6	±1.0%	38/19	100	QFN2.5×2.5-16	Power Good Indicator, Output Discharge, Latch-off UVP/OVP/OTP
SY8386BRHC	4.5	24	6	0.6	Fixed 3.338	±1.0%	36/18	75	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Output Discharge
SY8386CRHC	5.5	24	6	0.6	Fixed 5.1	±1.0%	36/18	130	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Output Discharge
SY8388ARHC	4	24	8	0.6	0.6	±1.0%	20/10	140	QFN2.5×2.5-16	Power Good Indicator, Hic-cup UVP, Output discharge
SY8388RHC	4.5	24	8	0.5	0.6	±1.0%	30/15	100	QFN2.5×2.5-16	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY8388BRHC	4.5	24	8	0.6	Fixed 3.338	±1.0%	30/15	75	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge

Single Output Step down (Buck) Converter $23V \leq V_{IN}$ Max $\leq 24V$

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
SY8388B3RHC	4	24	8	0.6	Fixed 3.338	±1.0%	20/10	85	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY8388C3RHC	5.5	24	8	0.6	Fixed 5.1	±1.5%	20/10	85	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
NEW SY83088CRHC	5.5	24	8	0.6	Fixed 5.1	±1.5%	20/10	96	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY8388D3RHC	4	24	8	0.5	0.6	±1%	20/10	140	QFN2.5×2.5-16	Power Good Indicator, Latch-off Protection, Auto-discharge
SY8310RAC	4	24	9	0.6	0.6	±1.0%	27/9	85 in S3 125 in S0	QFN3×3-20	Power Good Indicator, 9A continuous/14A peak current capability, Latch-off UVP/OVP, ±1A Source/Sink Current Capability of the VTT LDO
SY8310DRAC	4	24	9	0.6	0.6	±1.0%	27/9	65 in S3 110 in S0	QFN3×3-20	Power Good Indicator, 9A Continuous/12A Peak Current Capability, Latch-off UVP/OVP, ±1A Source/Sink Current Capability of the VDDQ LDO
SY8371BTMC	4	24	10	0.6	Fixed 3.36	±1.0%	18/8	85	QFN3×4-13	Power Good Indicator, Latch-off Protection, Auto-discharge
SY8370C1TMC	5.5	24	11	0.6	Fixed 5.15	±1.5%	17/7.5	110	QFN3×4-13	Power Good Indicator, Latch-off UVP/OVP, Output Discharge
SY8370TMC	4	24	11	0.5	0.6	±1.0%	17/7.5	140	QFN3×4-13	Power Good Indicator, Latch-off UVP/OVP, Output Discharge
NEW SY8370FTMC	5.5	24	11	0.6	1	±1.0%	17/7.5	180	QFN3×4-13	High Duty Cycle Capable using On-Time Stretch, Power Good Indicator, Auto-Discharge
SY8222DBC*	4.5	23	2	0.5	0.6	±1.5%	150/110	400	DFN3×3-10	Power Good Indicator, EXT SS, Hic-cup SCP
SY8203ADBC*	4.5	23	3	1	0.6	±1.5%	120/85	400	DFN3×3-10	Power Good Indicator, EXT SS
SY8223DBC*	4.5	23	3	0.5	0.6	±1.5%	120/85	400	DFN3×3-10	Power Good Indicator, EXT SS, Hic-cup SCP
SY8286RAC*	4	23	6	0.5	0.6	±1.0%	38/19	120	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY8286ARAC*	4	23	6	0.6	0.6	±1.0%	38/19	120	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Hic-cup SCP
SY8286BRAC*	4	23	6	0.6	Fixed 3.37	±1.5%	38/19	75	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY8286CRAC*	5.5	23	6	0.6	Fixed 5.1	±1.5%	38/19	108	QFN3×3-20	Power Good Indicator, Output Auto Discharge, Latch-off Protection
SY8288ARAC*	4	23	8	0.6	0.6	±1.0%	22/11	120	QFN3×3-20	Power Good Indicator, Output Discharge, Hic-cup SCP
SY8288BRAC*	4	23	8	0.6	Fixed 3.37	±1.5%	22/11	75	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY8288CRAC*	5.5	23	8	0.6	Fixed 5.1	±1.5%	22/11	108	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY8288RAC*	4	23	8	0.5	0.6	±1.0%	30/10	105	QFN3×3-20	Power Good Indicator, Output Discharge, Latch-off UVP/OVP
SY8270TMC*	4	23	10	0.5	0.6	±1.0%	28/8	100	QFN3×4-13	Power Good Indicator, Latch-off OVP/SCP

* Not recommended for new design

Single Output Step down (Buck) Converter $27V \leq V_{IN} \text{ Max} \leq 30V$

Part Number	V_{IN}		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (R_{on} H/L) (m Ω)	Quiescent Current (μ A)	Package	Feature/ Special Function
	Min (V)	Max (V)								
SY8201ABC	4.5	27	1	0.5	0.6	$\pm 2.0\%$	350/150	400	SOT23-6	
SY8201CABC	4.5	27	1	1.15	0.6	$\pm 2.0\%$	350/150	400	SOT23-6	Force CCM
SY8202ADC	4.5	28	1.7	0.5	0.6	$\pm 2.0\%$	350/150	400	TSOT23-6	Cycle-by-cycle Valley Current Limitation
SY8263AIC	4.5	30	3	0.5~2.5	0.6	$\pm 1.5\%$	110/70	19	TSOT23-8	Hic-cup SCP
SY8205DNC	4.5	30	5	0.5	0.6	$\pm 1.5\%$	70/40	200	DFN3 $\times$ 4-12	Power Good Indicator, EXT SS
SY8205FCC	4.5	30	5	0.5	0.6	$\pm 1.5\%$	70/40	200	SO8E	EXT SS
SY8366QNC	4	28	6	0.8	0.6	$\pm 1.5\%$	40/20	100	QFN3 $\times$ 3-10	Power Good Indicator, Latch-off SCP/OVP, 12A Peak Current Capability, Programmable peak current limit
SY8366AQQC	4	28	6	0.8	0.6	$\pm 1.5\%$	40/20	100	QFN3 $\times$ 3-12	Power Good Indicator, Hic-cup SCP/OVP, 12A Peak current capability, programmable peak current limit
SY8366HQQC	4	28	6	0.8	0.6	$\pm 1.5\%$	40/20	100	QFN3 $\times$ 3-12	Power Good Indicator, Hic-cup SCP, 12A Peak current capability, programmable peak current limit
SY8366KQQC	4	28	6	0.5	0.6	$\pm 1.5\%$	40/20	100	QFN3 $\times$ 3-12	Power Good Indicator, Hic-cup SCP, 12A peak current capability, programmable peak current limit
SY8368AQQC	4	28	8	0.8	0.6	$\pm 1.0\%$	20/10	100	QFN3 $\times$ 3-12	Power Good Indicator, Hic-cup SCP, 16A Peak current capability, programmable output current limit
SY8368LQQC	4.5	28	8	0.5	0.6	$\pm 1.0\%$	20/10	100	QFN3 $\times$ 3-12	Power Good Indicator, OVP
SY8213FCC*	4.5	30	3	0.5	0.6	$\pm 1.5\%$	80/50	200	SO8E	Power Good Indicator, EXT SS
SY8210AQVC*	4	28	10	0.6	0.6	$\pm 1.5\%$	25/8	300	QFN4 $\times$ 3-19	Power Good Indicator, Memory power, 10A VDDQ/2A VTT LDO, 16A Peak Current capability, Latch off UVP/OVP, Over temperature alert
SY8210DQVC*	4	28	10	0.6	0.6	$\pm 1.5\%$	25/8	300	QFN4 $\times$ 3-19	Power Good Indicator, Memory power, 10A VDDQ/1A VTT LDO, 16A Peak Current capability, Latch-off UVP/OVP, Over temperature alert

* Not recommended for new design

Single Output Step down (Buck) Converter $36V \leq V_{IN} \text{ Max} \leq 40V$

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
SY8290ABC	5	40	0.3	2	0.6	±2.0%	2000/-	160	SOT23-6	
SY8301ABC	4.5	40	1	2	0.8	±1.0%	380/180	18	SOT23-6	Hic-cup SCP
SY8291ABC	5	40	1.2	0.8	0.6	±2.0%	180/-	160	SOT23-6	
SY8291FABC	9	36	1.2	0.3	0.81	±2.0%	180/-	160	SOT23-6	
SY8292ABC	5	40	2	0.8	0.6	±2.0%	180/-	160	SOT23-6	
SY8293FCC	5	40	3	0.8	0.6	±2.0%	180/-	160	SO8E	
SY8303AAIC	4.5	40	3	0.5~2.5	0.6	±1.5%	110/70	18	TSOT23-8	
SY8308RBC	4	40	8	0.35/ 0.5	0.6	±1.0%	25/12	60	QFN3.5×3.5-20	Power Good Indicator, programmable soft-start & valley current limit, hic-cup SCP, selectable switching frequency

Single Output Step down (Buck) Converter $V_{IN} \text{ Max} \geq 50V$

Part Number	V_{IN} Min (V) Max (V)		I_{OUT} (Max) (A)	f_{SW} (MHz)	V_{OUT} (Min) (V)	Voltage Accuracy	MOSFET (Ron H/L) (mΩ)	Quiescent Current (μA)	Package	Feature/ Special Function
SY8401ABC	4.5	50	0.8	1.2	0.6	±1.0%	700/-	150	SOT23-6	
SY8492FCC	4.5	60	2	0.1~1	0.8	±1.0%	175/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency
SY8493FCC	4.5	60	3	0.1~0.5	0.8	±1.0%	150/-	100	SO8E	Adjustable switching frequency range: 100kHz~500kHz, hic-cup SCP
SY8502AFCC	7	85	1.2	0.2~0.5	1.2	±2.0%	500/240	/	SO8E	Programmable Switching Frequency /FCCM, 1.2A Continuous/1.8A Peak Output Current Capability
SY8502FCC	7	85	1.2	0.2~0.5	1.2	±2.0%	500/240	400	SO8E	Programmable Switching Frequency, 1.2A Continuous/1.8A Peak Output Current Capability
SY8511ADC	4.5	100	0.6	0.2	0.6	±1.0%	1000/-	100	TSOT23-6	Hic-cup SCP
SY89000FCC	7	100	0.6	0.2~0.6	1.225	±2.0%	500/285	/	SO8E	Programmable Switching Frequency
SY8501FCC	7	100	1	0.2~1	1.2	±2.0%	500/240	400	SO8E	Programmable Switching Frequency
SY89001FCC	7	100	1	0.2~0.6	1.225	±2.0%	500/240	/	SO8E	Programmable Switching Frequency
SY8511BADC	4.5	100	1.2	0.2	0.6	±1.0%	1000/-	100	TSOT23-6	Hic-cup SCP
SY8512FCC	4.5	100	2	0.1~1	0.8	±1.0%	175/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency
SY8513FCC	4.5	100	3	0.1~0.5	0.8	±1.0%	150/-	100	SO8E	Power Good Indicator, Hic-cup SCP, Adjustable Switching Frequency

Single Output Step Up (Boost) Converter (Low Voltage)

Part Number	V _{IN}		I _{LIM} (A)	f _{SW} (MHz)	V _{OUT} (Max) (V)	Sync Boost	Fixed Output Voltage (V)	V _{FB} / Accuracy	Quiescent Current		MOSFET Ron (H/L)(mΩ)	Feature/ Special Function	Package
	Min (V)	Max (V)							Input (μA)	output (μA)			
SY7070AAC	0.7	5	0.35	/	/	✓	3.3	/	0.5	5.5	700/500	Pass-through Function @ Shutdown	SOT23-5
SY7070AAAC	0.7	5	0.35	/	/	✓	3	/	0.5	5.5	700/500		SOT23-5
SY7071AHC	0.7	5	0.35	/	5.25	✓	/	1.0V±3%	0.5	5	700/500	Pass-through Function @ Shutdown	SOT-363
SY7071AAHC	0.7	5	0.35	/	/	✓	5	/	0.5	7	500/400	Pass-through Function @ Shutdown; OVP	SOT-363
SY7072DABC	0.85	5.5	0.6	1	5.5	✓	/	0.5V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY87092SUD	1.8	5.5	1	1	5.5	✓	/	1.2V±1.5%	/	/	125/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP, CCM Only	DFN2×1.5-6
SY7072AABC	0.85	5.5	2	1	5.5	✓		1.2V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY7072ABC	1.8	5.5	2	1	5.5	✓		1.2V±1.5%	0.7	5	170/100	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	SOT23-6
SY7092SUC	0.85	5.5	2	1	5.5	✓	/	1.2V±1.5%	0.7	5	125/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	DFN2×1.5-6
SY7063QMC	1.8	5.25	3	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/36	Output Disconnect @Shutdown	QFN2×2-10
SY7069ADC	2.5	5.5	3	1	5.5	✓	/	1.2V±1.5%	8	32	90/50	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	TSOT23-6
SY7069BADC	2.5	5.5	3	1	5.5	✓	/	1.2V±1.5%	8	32	90/50	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	TSOT23-6
SY7069CUMC	2.5	5.5	3	1	5.6	✓	/	1.2V±1.5%	8	32	100/70	Auto Bypass Mode When V _{IN} ≥ V _{OUT} ; OVP	CSP1.54×0.9-6
SY7065QMC	1.8	5.25	5	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Auto Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY7065AQMC	1.8	5.25	5	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	No Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY7076QMC	2	5.5	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Selectable Forced PWM Mode, Programmable Output Current Limit, OVP	QFN2×2-10
SY7066QMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Auto Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY7066AQMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	No Output Discharge Function, Input Battery Voltage Monitor, OVP	QFN2×2-10
SY7066BQMC	1.8	5.25	6	0.5	5.5	✓	/	1.2V±1.5%	10	27	40/20	Selectable Forced PWM Mode, OVP	QFN2×2-10
SY7060LAHC*	0.7	5	0.2	/	5.25	✓	/	0.5V±3%	0.5	18	800/450	Pass-through Function@ Shutdown; OVP	SOT-363
SY7060AHC*	0.7	5	0.4	/	5.25	✓	/	0.5V±3%	0.5	18	800/450	Pass-through Function@ Shutdown; OVP	SOT-363
SY7080ABC*	0.9	4	1.8	1.2	4	✓	/	1.2V±3%	65	/	200/90	Output Disconnect @Shutdown	SOT23-6
SY7088DGC*	2.3	5.25	3	1	5.5	✓		1.2V±1.5%	2	30	85/70	OVP	DFN2×3-8
SY7088EDGC*	2.3	5.25	3	1	5.5	✓	/	1.2V±1.5%	/	/	85/70	FCCM, OVP	DFN2×3-8

* Not recommended for new design

Single Output Step Up (Boost) Converter (High Voltage)

Part Number	V _{IN}		I _{LIM} (A)	f _{SW} (MHz)	V _{OUT} (Max) (V)	Sync Boost	V _{FB} / Accuracy	Input Quiescent Current (μA)	MOSFET Ron (H/L) (mΩ)	Feature/ Special Function	Package
SY7208CABC	3	25	0.6	1	25		0.6V±2%	100	-/150	Internal SS/Comp	SOT23-6
SY7152AABC	3	8	2	1	16		0.6V±2%	100	-/130	Internal SS/Comp	SOT23-6
SY7208LABC	3	25	2	1	25		0.6V±2%	100	-/150	Internal SS/Comp	SOT23-6
SY7302ABC	3	33	2	1	33		0.6V±2%	100	-/200	Internal SS/Comp	SOT23-6
SY7388ABC	3.5	30	2	0.85	30		1V±2%	150	-/200	Accurate Input Current Limit	SOT23-6
SY7102ABC	2	6	2.5	1	6		0.6V±2%	200	-/120	Internal SS/Comp	SOT23-6
SY7104ADBC	2	6	4	1	6		0.6V±2%	100	-/90	Internal SS/Comp	DFN3×3-10
SY7304DBC	3	33	4	1	33		0.6V±2%	100	-/120		DFN3×3-10
SY7205ADBC	8.6	15.9	4.5	0.5	16		1.25V±1.5%	120	-/75	Adjustable Soft-start Time, OVP	DFN3×3-10
SY7982QDC	3	9	6	1	13	√	1V±2%	600	40/80	Power Good Indicator, Integrated 40mΩ Disconnection FET, True Shutdown	QFN3×3-16
SY7219DBC	3	5.5	9	/	36		1.25V±2%	380	-/65	EXT Comp	DFN3×3-10
SY7215ARDC	3	16	15	0.25~1	16	√	1V±1.5%	230	12/9	Power Good Indicator, Integrated 12mΩ Disconnection FET, Internal SS, OVP/SCP/ True shutdown, Programmable Switching Frequency: 0.25~1MHz	QFN4×4-18
SY7315RDC	4.5	30	15	0.2~1	30	√	1V±1.5%	230	18/16	Integrated 18mΩ Disconnect ion FET, OVP/OTP/SCP, True Shutdown, Programmable Switching Frequency: 0.2~1MHz, Power Good Indicator	QFN4×4-18
SY7120RAC	2.8	16	2~10	0.3~2	16	√	1V±1%	200	20/10	PFM/PWM light load operation mode, Programmable Switching Frequency: 0.3~2MHz, Programmable I _{LIM} : 2~10A, OVP	QFN3×3-20

DC-DC PWM Controller (External Switch)

Part Number	V _{IN}		F _{SW} (MHz)	V _{REF} (V)	Function	Package
SY7901DBC	3	25	0.5	1	Current mode DC/DC controller targeted for Boost, SEPIC, Flyback and Forward applications with DC Input Current Limit	DFN3×3-10
SY7902AFHC	3	25	0.3	1	Current mode DC/DC controller targeted for both Boost and SEPIC applications with DC Output Current Limit	SOP10

Step Up/Down Regulator (Power Switch Integrated)

Part Number	V _{IN} min (V) max (V)		I _{LIM} (A)	f _{sw} (MHz)	V _{OUT} (max) (V)	V _{FB} / Accuracy	Input Quiescent Current (μA)	MOSFET Ron (H/L) (mΩ)	I ² C	Feature/ Special Function	Package
SY9702QOC	2.6	5.5	2	1	3.8	0.6V±1.5%	60	50/50		Output Disconnect @Shutdown	QFN2×3-13
SY9701ADPC	2.6	5.5	1.2	1	3.8	0.6V±1.5%	60	100/100		Output Disconnect @Shutdown	DFN3×3-14
SY9329QFC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	310	25/25	✓	Selectable Inductor Current Limit and VBUS Output Current Limit Selectable VBUS Output Voltage:5V, 7V, 9V, 12V, 15V, 20V	QFN4×4-32
SY9329BQFC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	310	25/25	✓	Selectable Inductor Current Limit and VBUS Output Current Limit Selectable VBUS Output Voltage:5V, 9V, 10V, 12V, 15V, 20V	QFN4×4-32
SY9329CQFC	4	28	Programmable 6A/10A	0.25/0.5	28	1V±1.5%	300	25/25		Programmable Output Current Limitation with Ext. Sensing Resistor	QFN4×4-32
SY9228QEC	4	28	Programmable 6A/8A/10A	0.25/0.5/ 0.75/1	28	adjustable	450	19/19		VBUS Output Voltage can be Configured in 0.1V per Step from 3.6V to 21V Selectable Inductor Current Limit and Output Current Limit	QFN5×5-32

LDO Regulator

Part Number	V _{IN} (Min)(V)	V _{IN} (Max)(V)	V _{OUT} (V)	I _{OUT} (A)	Dropout Voltage (mV)	Package	Function
SY6340BAAC	3.6	30	3.3	0.05	100	SOT23-5	Reverse Blocking Function
SY6340DEC	2.3	30	Adjustable	0.15	300	DFN2×2-6	Reverse Blocking Function
SY6340AAC	2.3	30	Adjustable	0.15	300	SOT23-5	Reverse Blocking Function
SY6340ZDED	2.5	30	Adjustable	0.15	150	DFN2×2-6	LDO Reg.
SY6345AAC	4	40	Adjustable	0.3	300	SOT23-5	LDO Reg.
SY6307BSCC	0.8	5.5	Adjustable	0.5	90	DFN1.2×1.2-6	Current Limiting Protection, Auto-discharge
SY6301DSC	1.6	5.5	Adjustable	1	0.32V @ I _{OUT} =1A, V _{OUT} =1.5V 0.18V @ I _{OUT} =1A, V _{OUT} =2.8V	DFN3×3-6	Current Limiting Protection, Auto-discharge
SY6301BAJC	1.6	5.5	3.3	1	200	SOT223	Current Limiting Protection
SY6103JBC	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO252-5	Zero-current Shutdown Mode, Output Short Circuit Protection
SY6103MAC	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO263-5	Zero-current Shutdown Mode; Output Short Circuit Protection
SY6103BMAB	3	18	Adjustable	3	0.48V @ I _{OUT} =3A	TO263-5	Zero-current Shutdown Mode
SY6353MAC	3	55	Adjustable	3	0.45V @ Full Load 3A	TO263-5	Zero-current Shutdown Mode; Over Input Voltage Protection
SY6353BMAB	3	55	Adjustable	3	0.45V @ Full Load 3A	TO263-5	Zero-current Shutdown Mode
SY6355DBC	2.375	3.5	Adjustable	3	/	DFN3×3-10	Sink and Source DDR Termination Regulator
SY6355BTDD	2.375	3.5	Adjustable	2	/	DFN2×2-10	Sink and Source DDR Termination Regulator

Protection Switch

Part Number	Package	Enable Logic	OC	OVP	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY6288AAAC	SOT23-5	H	✓		1	2.5~5.5	0.6	80	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6288BAAC	SOT23-5	L	✓		1	2.5~5.5	0.6	80	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6811PDC	CSP0.9×0.9-4	H			1	1.05~1.95	1	45@V _{IN} =1.2V 35@V _{IN} =1.8V	Auto output cap discharge function, ultra low input voltage
SY6829PRC	CSP0.79×0.79-4	H		✓	1	2.5~6	1	96	Precise clamping output voltage
SY6819AFAC	SO8	H	✓		1	4.5~18	1.2	110@V _{IN} =12V	Programmable blanking time for DFF control, Default Off when EN ON
SY6819FAC	SO8	H	✓	✓	1	4.5~18	1.2	110@V _{IN} =12V	Programmable blanking time for DFF control, Default On when EN ON
SY6829BPRC	CSP0.79×0.79-4	H			1	1.8~5.5	1.5	80	Independent ON/OFF Control Input
SY6280DAAT	SOT23-5	H	✓		1	2.5~5.5	0.1~2	65	Programmable current limit, reverse blocking
SY6280AAAC	SOT23-5	H	✓		1	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking
SY6281AAAC	SOT23-5	L	✓		1	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking
SY6288C20AAC	SOT23-5	H	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6288D20AAC	SOT23-5	L	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6882ADFC	DFN2×2-8	H		✓	1	3~23	2	100	Fixed internal OVP@7.1V, Thermal Shutdown Protection & Auto Recovery
SY6882BDFC	DFN2×2-8	H		✓	1	3~23	2	100	Programmable OVP Threshold Thermal Shutdown Protection & Auto Recovery
SY6883ABC	SOT23-6	H		✓	1	3~23	2	100	Programmable OVP Threshold Thermal Shutdown Protection & Auto Recover
SY6287CABC	SOT23-6	H	✓		1	2.5~5.5	2	65	TUV/CB, UL Certificate
SY6287BDEC	DFN2×2-6	L	✓		1	2.5~5.5	0~2	65	High accurate programmable current limit, reverse blocking
SY6287CDEC	DFN2×2-6	H	✓		1	2.5~5.5	0~2	65	High accurate programmable current limit and reverse blocking
SY6287ZDEC	DFN2×2-6	H	✓		1	2.5~5.5	2	65	Output discharge at shutdown Reverse Blocking, OCB indicator
SY6287LABC	SOT23-6	H	✓		1	2.5~5.5	2	65	Adjustable Current Limit up to 2.0A, OCP/OTP with Latch Off Function
SY6816APAC	CSP0.78×0.78-4	H			1	1.05~5.5	2	37@V _{IN} =5V 38@V _{IN} =3.3V 43@V _{IN} =1.8V	Load Switch with Controlled Slew Rate
SY6816GPAC	CSP0.78×0.78-4	L			1	1.05~5.5	2	37@V _{IN} =5V 38@V _{IN} =3.3V 43@V _{IN} =1.8V	Load Switch with Controlled Slew Rate
SY6829APRC	CSP0.79×0.79-4	H			1	1.8~5.5	2	95	Ultra low quiescent current for IoT application
SY6288C7AAC	SOT23-5	H	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB Certificate
SY6288D7AAC	SOT23-5	L	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB Certificate
SY6288C5CAC	MSOP8	H	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate

Protection Switch

Part Number	Package	Enable Logic	OC	OVP	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY6288D5CAC	MSOP8	L	✓		1	2.5~5.5	2.5	70	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6282LACC	TSOT23-5	H	✓		1	2.4~6	2.5	80	Programmable current limit
SY6280CAAT	SOT23-5	H	✓		1	2.5~5.5	0.1~2.5	65	Programmable current limit, reverse blocking
SY6288F3ABC	SOT23-6	H	✓		1	2.5~5.5	0~3	45	programmable current limit and reverse blocking, UL Certificate
SY6288E1AAC	SOT23-5	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6288E2AAC	SOT23-5	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, TUV/CB, UL Certificate
SY6288F2ABC	SOT23-6	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6282ACC	TSOT23-5	H	✓		1	2.4~6	3	50	Output discharge at shutdown Reverse Blocking, OCB indicator
SY6283ADRC	DFN1.2×1.6-4	H	✓		1	2.5~5.5	3	60	Output discharge at shutdown Reverse Blocking
SY6283DRC	DFN1.2×1.6-4	H	✓		1	2.5~5.5	3	60	Reverse blocking output, ultra low input voltage
SY6813PEC	6 ball CSP	H			1	1.2~5.5	3	22	Auto output cap discharge function
SY6813APEC	6 ball CSP	H			1	1.2~5.5	3	22	No output cap discharge function
SY6821AAC	SOT23-5	H			1	0.6~3.6	3	45	Programmable turn-on delay, Automatic shutdown discharge
SY6861A1AAC	SOT23-5	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861B1ABC	SOT23-6	H	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861A2AAC	SOT23-5	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6861B2ABC	SOT23-6	L	✓		1	2.5~5.5	3	45	Output discharge at shutdown Reverse Blocking, OCB indicator, UL Certificate
SY6863B2ABC	SOT23-6	L	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY6863B3ABC	SOT23-6	H	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY6863B4ABC	SOT23-6	L	✓	✓	1	2.5~5.5	3	45	Support Fast Role Swap, OCB, Reverse Block up to 28V, TUV/CB, UL Certificate
SY6886UGC	CSP1.50×1.64-12	H	✓	✓	1	3~18	3	45	OC
SY6886BUGC	CSP1.50×1.64-12	H	✓	✓	1	3~18	3	45	OC
SY6821ADQC	DFN1.5×1.5-6	H			1	0.6~3.6	4	16	Programmable turn-on delay & Automatic shutdown discharge
SY6823DFC	DFN2×2-8	H			2	0.6~5.5	4	28	Programmable turn-on delay & ramp-up time, integrated OTP SCP
SY6874DBC	DFN3×3-10	H	✓	✓	1	2.5~30	4	50	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY6818PLC	CSP1.73×1.73-12	H		✓	1	2.5~30	5	R _{PWPT} =53mΩ (typ.)	Programmable OVP with Integrated Reverse Blocking FET, accurate current level indicator

Protection Switch

Part Number	Package	Enable Logic	OCP	OVP	No. of Channels	V _{IN} (V)	I _{OUT} (A)	R _{DS(ON)} (mΩ)	Special Function
SY6875ADBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY6875CDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/12V selectable clamping output
SY6875DDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	40	Programmable soft-start & current limit, 3.3V/5V/9V selectable clamping output
SY6875FDBC	DFN3×3-10	H	✓	✓	1	2.5~30	5	50	Programmable softstart¤t limit, 3.3V/5V/12V selectable clamping output
SY6895ADBC	DFN3×3-10	H	✓	✓	1	2.5~12	5	40	Fixed Current Limit, Prog. SS
SY6895CDBC	DFN3×3-10	H	✓	✓	1	2.5~12	5	40	Fixed Current Limit, Prog. SS
SY6884PYC	CSP0.89×1.43-6	H		✓	2	2.5~25	5	30	Programmable Over Voltage Threshold
SY6862AQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap, Programmable Over Current Response Time for HV Power Path
SY6862BQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap, Programmable Over Current Response Time for HV/5V Power Path, RVS_Mask bit
SY6862CQLC	QFN3×4-16	H	✓	✓	2	HV: 4.5~23 5V: 4~5.5	HV: 5A 5V: 3A	35 (HV Power Path) 50 (5V Power Path)	I ² C Interface, 2 to 1 Power MUX, Fast Role Swap, Programmable Over Current Response Time for HV/5V Power Path, , RVS_Mask bit
SY6880CPGC	CSP1.8×2-12	H		✓	1	2.5~28	5A continuous, 8A peak	38	Fixed internal OVP@6.8V, Reverse block, Surge protection up to 80V
SY6880APGC	CSP1.8×2-12	H		✓	1	2.5~28	5A continuous, 8A peak	38	Programmable Over Voltage Threshold from +4V to +7V
SY6881PTC	CSP1.32×1.86-12	H		✓	1	2.5~28	Programmable 5A	R _{PWPT} =32mΩ (typ.)	Programmable Over Voltage Threshold from +4V to +22V
SY6898ERYC	QFN2×2-9	H	✓		1	2.95~6.5	5	30	Selectable Clamping Output Voltage
SY6896RYC	QFN2×2-9	H	✓		1	2.7~5.5	5	30	Programmable high current limit, reverse blocking, VIN state indicate, Selectable Clamping Output
SY6897ATLC	QFN2×2-12	H	✓		1	2.5~16	1~5	30	Programmable OUT Slew Rate
SY6885BQDC	QFN3×3-16	H	✓	✓	1	4~60	5	40	OCP/TSD/OVP Protection, Auto-recovery, Programmable Output Voltage Clamping
SY86802LTLQ	QFN2×2-12	H	✓		1	2.5~16	5	30	Blocking FET Control, Programmable OUT Slew Rate Built-in Thermal Shutdown and Latch-off
SY6876AQSC	QFN3×4-20	H	✓	✓	1	2.7~18	0.6~5.3	42	True reverse blocking, programmable current limit & dV/dt control, power good and fault outputs
SY6234DUC	DFN3×2-14	H	✓		2	0.8~5.5	6	18	Dual-channel, Programmable soft-start time
SY6210DHC	DFN2×3-10	H			1	0.6~5.5	10	2.8	Controlled and Adjustable Slew Rate through C _{SST} , PG Indicator
SY86011AWPQ	QFN1.5×2-10	H			1	0.285~5.5	10	5.3	Auto Output Discharge

Supervisor & Reset ICs

Part Number	Package	Number of Supplies Monitored	Output Driver/ Reset Output	Threshold Voltage (V)	Delay Time (ms)	Reset Threshold Accuracy	Quiescent Current (μA)	Features
SY6370ADTD	DFN1.45×1-6	1	Active high, Push-pull	Adjustable	Programmable	±1%	9	EN ON delay time programmable
SY6370EDTD	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	EN ON delay time programmable
SY6370FDTC	DFN1.45×1-6	1	Active high, open drain	Adjustable	Programmable	±1%	9	200ns EN ON delay time



Battery

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY6927FAC	Single-Cell High Efficiency Switching Charger	SO8	4~16	1.2	0.8	Single Cell	4.1V	Adaptive Input Current Limit
SY6927BFAC	Single-Cell High Efficiency Switching Charger	SO8	4~16	1.5	0.8	Single Cell	4.2V	Adaptive Input Current Limit
SY6923D1PPC	Single-Cell with USB-OTG	CSP1.93x2.05-20	4~6	1.25/1.55	3	Single Cell	3.5~4.44V	Compliance with USB and USB OTG
SY6908AQDC	Single-Cell Bi-directional Power Bank	QFN3x3-16	4.5~5.5	2	0.5	Single Cell	4.2V	Adaptive current limit, 2.5A Boost, 3in1 Power Bank
SY6908BQDC	Single-Cell Bi-directional Power Bank	QFN3x3-16	4.5~5.35	2	0.5	Single Cell	4.35V	Adaptive current limit, 2.5A Boost, 3in1 Power Bank
SY6918AQDC	Single-Cell Bi-directional Power Bank	QFN3x3-16	4.5~5.35	2	0.5	Single Cell	4.2V, 4.35V	Prog. current limit, 2.5A Boost
SY6952AQIC	Single-cell Charger Step Down Reg.	QFN4x4-16	4~23	2	0.8	Single Cell	4.2V, 4.35V	Power Path Management and Adaptive Input Current Limit
SY6952CDCC	Single-cell Charger Step Down Reg.	DFN3x3-12	4~23	2	0.8	Single Cell	4.2V, 4.35V	Power Path Management and Adaptive Input Current Limit
SY6952BFCC	Single-cell Charger Step Down Reg.	SO8E	4~23	2	0.8	Single Cell	4.2V, 4.35V	Adaptive Input Current Limit
SY6952B1FCC	Single-cell Charger Step Down Reg.	SO8E	4~23	2	0.8	Single Cell	4.1V, 4.4V	Adaptive Input Current Limit
SY6918EQDC	Single-cell Battery Power Bank Charger	QFN3x3-16	4.7~5.5	2	0.5	Single Cell	4.25V, 4.4V	Prog. Current Limit, 2.5A Boost
SY6918CQDC	Single-Cell Bi-directional Power Bank	QFN3x3-16	4.5~5.35	2.5	0.5	Single Cell	4.2V, 4.35V	Prog. Current Limit, 2.5A Boost
SY6918GQDC	Single-cell Battery Power Bank Charger	QFN3x3-16	4.5~5.35	2.5	0.5	Single Cell	4.2V, 4.35V	Prog. Current Limit, 4.75V Boost
SY6907QCC	Single Cell NVDC Switching Charger	QFN4x4-24	3.9~6	2.5	1.5	Single Cell	3.5~4.4V	I ² C Control, USB OTG, Power Path Management
SY6924QDC	Multi-cell Charger Step Down Reg.	QFN3x3-16	4~14	2.5	0.5	1-2 Cells	4.2V, 4.35V	Adaptive input current limit, Blocking FET integrated
SY6924BQDC	Multi-cell Charger Step Down Reg.	QFN3x3-16	4~14	2.5	0.5	1-2 Cells	4.1V, 4.25V	Adaptive input current limit, Blocking FET integrated
SY6924CQDC	Multi-Cell Li-Ion Battery Charger	QFN3x3-16	4~13	2.5	0.5	1-2 Cells	4.1V, 4.2V	Adaptive Input Power Limit, Blocking FET integrated
SY6928TYC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-26	4.5~5.7	3	0.35	Single Cell	4.2V/4.35V/4.4V	dual output data port, adjustable battery level indication
SY6928BTYC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-26	4.5~5.7	3	0.35	Single Cell	4.2V, 4.35V, 4.4V	dual output data port, adjustable battery level indication, 5% low power alarm
SY6974QCC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, step 32mV	NVDC power path management, OTG

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY6974BQCC	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, step 32mV	NVDC power path management, OTG, BC1.2 compliance
SY6974CQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.856~4.624V, step 32mV	NVDC power path management, OTG, Default Input OVP 14V
SY6970BQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~14	5	1.5	Single Cell	3.84~4.608V, step 32mV	NVDC power path management, OTG, BC1.2 compliance, Default HVTYPE=12V
SY6970DQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~14	5	1.5	Single Cell	3.84~4.608V, step 32mV	NVDC power path management, OTG, BC1.2 compliance, Default HVTYPE=9V
SY6971VKS	Single Cell Li-Ion/ Li-polymer DC/DC Switching Charger	CSP 2.2×2.565 -30	3.8~14	2	1.5	Single Cell	4.0-4.5V, step 10mV	Extremley low Iq, NVDC power path management, OTG, dual-channel LDO
SY6935QDC	High Current Step-down Charger	QFN3x3-16	4~14	3.5	0.5	1-2 Cells	4.2V, 4.35V	Adaptive input current limit, Blocking FET integrated
SY6935BQDC	High Current Step-down Charger	QFN3x3-16	4~14	3.5	0.5	1-2 Cells	4.25V, 4.4V	Adaptive input current limit, Blocking FET integrated
SY6991QYC	Single-Cell Bi-directional Power Bank	QFN4x4-20	4~13.5	5	0.3, 0.5	Single Cell	4.1V, 4.2V, 4.35V, 4.4V	I ² C controlled, USB and Protocol IC Compliance, 20W Boost
SY6995QEQ	2 ports Single-Cell Bi-directional Power Bank	QFN5x5-32	4~13.5	8	0.26, 0.34, 0.42, 0.5	Single Cell	4.1V, 4.2V, 4.35V, 4.4V	Dual ports, Bi-direction for USB-C, I ² C, ADC, BC1.2, 28W Boost
SY6998QEQ	22.5W PD3.0 3IN1 Single Cell Power Bank	QFN5x5-32	4.6~13	5	Programmable	Single Cell	4.2V, 4.35V	USB Type-C DRP support, PD3.0, QC3.0/SCP compliance, Battery Fuel Gauge Indicator, 22.5W output power
SY6996VCC	3IN1 Single-Cell Bi-directional Power Bank	QFN5x5-34	4.6~13.2	5	Programmable	Single Cell	4.2V, 4.35V, 4.4V	QC3.0, AFC/FCP compliance, Battery Fuel Gauge Indicator
SY6990QCC	Single-Cell Bi-directional Power Bank	QFN4x4-24	4~13.5	5	0.5	Single Cell	4.1V, 4.2V, 4.35V, 4.4V	I ² C controlled, USB Compliance, 5V/3A&12V/1.2A Boost
SY6983QDC	3-cell Synchronous Boost Li-Ion Battery Charger	QFN3x3-16	3.6~12.8	1	0.5	3 Cells	4.2V, 4.35V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY6981QDC	2-cell Synchronous Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	1.2	1	2 Cells	4.1V, 4.2V, 4.35V, 4.4V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY6982NQDC	Two-Cell Boost Li-Ion Battery Charger With System Power Path Management	QFN3x3-16	3.6~5.5	1.5	1	2 Cells	8.4V	System Power Path Management; External Separated Control for Boost and BATFET
SY6982EQDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.2V, 4.35V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY6969CQFQ	Multi-Cell Synchronous Buck-Boost Battery Charger Controller	QFN4x4-32	3.5~25	8.128	0.8/1.2	1-4 Cells	1.024~19.2V	NVDC Power Path Management, DPM, OTG
SY6961DQFQ	Multi-Cell Synchronous Buck-Boost Battery Charger Controller	QFN4x4-32	3.5~25	8.128	0.8/1.2	1-4 Cells	1.024~19.2V	NVDC Power Path Management, DPM, OTG

Switching Charger

Part Number	Function	Package	V _{IN} (V)	Max. Charge Current (A)	F _{SW} (MHz)	Series Cells	Cell Voltage	Special Function
SY6982E1QDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.25V, 4.4V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY6982FQDC	2 cell Boost Li-Ion Battery Charger	QFN3x3-16	3~5.5	2	1	2 Cells	4.2V	Prog. Charge Current & Timer, Adaptive Input Current Limit
SY6984QDC	2-cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.2V, 4.35V	Prog. Charge Current&Timer, Cell Balance Control
SY6981BQDC	2-cell Boost Li-Ion Battery Charger	QFN3x3-16	3.6~5.5	2	1	2 Cells	4.1V,4.2V,4.25V,4.35V	Prog. Charge Current&Timer, Adaptive Input Current Limit
SY6986RAC	2-cell Boost Li-Ion Battery Charger	QFN3x3-20	3.6~5.5	1.6	0.5	2 Cells	4.1V,4.2V, 4.35V	Prog.Charge Current&Timer, Cell Balance&Limit Control, NTC JEITA Compliance
SY7994QYC	Synchronous Boost converter with QC3.0	QFN4x4-20	2.7~4.5	/	0.3, 0.5	Single Cell	/	QC3.0 Compliance
SY6953QIC	2-4 cells Li-Ion synchronous Buck charger	QFN3x3-18	4~28	2	0.5	2-4 Cells	4.1V,4.2V,4.35V	Prog. Input Current Limit, Thermal Regulation, NTC JEITA Compliance
SY69410VWS	USB Type-C Port PD Controller	CSP1.29×1.25-9	3~5.5	/	/	/	/	Support TCPC, Support DFP/UFP/DRP, Support VCONN, Support PD3.0,Support VBUS Detect
SY6974GQCQ	Single Cell Li-Ion DC/DC Switching Charger	QFN4x4-24	3.9~13.5	3	1.5	Single Cell	3.8~4.61V, step 25mV	NVDC power path management, OTG, BC1.2 compliance
SY6971BVKS	Single Cell Li-Ion/ Li-polymer DC/DC Switching Charger	CSP 2.2×2.565 -30	3.8~14	2	1.5	Single Cell	4.0-4.5V, step 10mV	Extremley low Iq, NVDC power path management, OTG, dual-channel LDO
SY6973BQCQ	Single Cell Li-Ion DC-DC Switching Charger	QFN4*4-24(WB)	3.9~13.5	3	1.5	Single Cell	3.856V~4.624V, step 32mV	NVDC Power Path Management, OTG, BC1.2 Compliance, USB Source Detection
SY6975QCQ	Single Cell Li-Ion DC-DC Switching Charger	QFN4*4-24(RDL+WB)	3.9~14	5	1.5	Single Cell	3.84V~4.624V, step 16mV	NVDC Power Path Management, OTG, BC1.2 Compliance, USB Source Detection
SY6976WFS	Single Cell Li-Ion DC-DC Switching Charger with LED driver	CSP3.2*2.8-42	3.9~14	4	0.5, 1, 1.5, 2	Single Cell	3.84V~4.856V, step 8mV	NVDC Power Path Management,OTG,USB Source Detection, Charging Protocol, 2-channel 1.5A LED driver
SY6974GQCQ	Single Cell Li-Ion DC-DC Switching Charger	QFN4*4-24(RDL+WB)	3.9~13.5	3	1.5	Single Cell	3.8V~4.1V, step 25mV; 4.1V~4.61V, step 10mV;	NVDC Power Path Management, OTG, BC1.2 Compliance, USB Source Detection
SY6916AAQ	SMBus Controlled 1-4 Cell Battery Charger Controller	QFN4*4-28(WB)(P0.40)	4.5~24	16.256	0.6, 0.8, 1	1~4	1.024V-19.2V, step 16mV	High Accuracy for Voltage/Current Regulation, Accurate Power/Current Monitor,PROCHOT for CPU Throttling,Energy Star Low Iq

Fast Charge

Part Number	Function	Package	ADC	V _{IN} (V)	Typical Output Current(A)	F _{SW} (kHz)	MOSFET Peak Current(A)	Support Protocol	Protection
SY6510UIC	High Efficiency Single Phase 2:1 Switched Capacitor Converter	CSP2.57x3.71-34	NO	4.5~20	2	125~1000	14.5	No	OCP, OTP, OVP
SY6537CVLS	8A dual phase switched capacitor battery charger with ADC	CSP3.03x3.34-56	Yes	3.5~12	8	250~1000	16	No	OCP, OVP, OTP, UCP, VDR

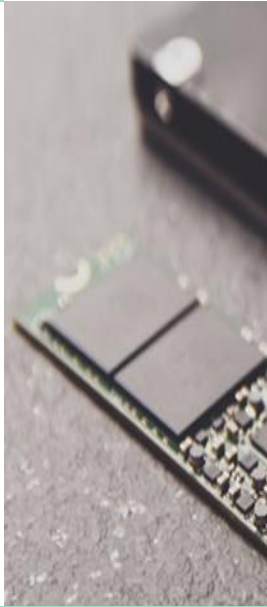
BMS

Part Number	Description	Package	V _{IN} (V)	Series Cells	Protection Mode
SY68920	3 to 6 Series Cell Battery Monitor, Balance, Protection for Li-ion and Phosphate Application	QFN5×5-32	30	3-6 Cells	OCD、SCD、OV、UV
SY68930	6 to 12 Series Cell Battery Monitor, Balance, Protection for Li-ion and Phosphate Application	QFN6×6-40	60	6-12Cells	OCD、SCD、OV、UV
SY68940	9 to 18 Series Cell Battery Monitor, Balance, Protection for Li-ion and Phosphate Application	QFN8×8-64	90	9-18Cells	OCD、SCD、OV、UV

Gauge IC

Part Number	Functions	Cell Chemistry	Package	Series Cells	Communication Interface	Operating Temperature Range (°C)	Special Functions
SY6410DFC	Cost-save Single Cell Li+ Battery Gauge IC	li-ion	DFN2×2-8	Single Cell	I ² C	-20 to 60	Eliminate Current Sense Resistor

PMIC



Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY8970UBC	2.4	5.5	1 Ch LSW+1 Ch LDO + 3 Chs Buck	CSP3.2×4.2-48	SSD Power System, Microcontrollers	3.4MHz I2C; Auto PFM/FCCM control; Dedicate Sleep Control; Power Good indicator; Protection: OVP/OCP/SCP/OTP.
SY8631BQCC	2.5	5.5	5	QFN4×4-24	Portable Media Players	2-Ch synchronous buck and 3ch LDO, one RESET output and forced PWM mode selection.
SY70300AVCS	2.5	5.5	1	WLCSP 2.66×3.89-54	Smart Phones, Tablets	4 integrated power stages and each phase has the capability to deliver up to 5A totally 20A continuous output current.
SY70300BVCS	2.5	5.5	4	WLCSP 2.66×3.89-54	Smart Phones, Tablets	4 integrated power stages and each phase has the capability to deliver up to 5A continuous output current.
NEW SY70201QPQ	2.6	5.5	4 Buck+ LSW+ Boost	QFN5×5-36	SSD	4-Ch Buck, 1-Ch LS, 1-Ch Boost, 3.4MHz I2C, Hardware reset control; DVS, Reset output, Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY8600GPZS	2.6	5.5	5 Chs Buck+2 Chs LDO	CSP3.23×3.23-52	SSD	5-Ch Buck(2-Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY8600CPZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23×3.23-52	SSD	5-Ch Buck(2-Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control.
SY8600EPZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23×3.23-52	SSD	5-Ch Buck(2-Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control.
SY8600PZC	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23×3.23-52	SSD	5-Ch Buck(2-Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY8600FPZS	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.23×3.23-52	SSD	5-Ch Buck(2-Ch can work LSW), 2Ch LDO. 3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP.
SY70200PZS	2.8	5.5	5 Chs Buck+2 Chs LDO	CSP3.2×3.2-52	SSD	3.4MHz I2C, Hardware sleep control; Reset output; Auto PFM/FCCM control; OVP/OCP/SCP/OTP. Enable Output Control.
SY70202AVTS	2.8	3.7	4 Chs Buck+2 Chs LDO	CSP2.6×3.6-36	SSD	4-Ch Buck and 2-Ch LDO; 3.4MHz I2C; OVP/SCP/OTP; Auto PWM/PFM or Forced PWM Controlled
SY8686UXC	2.9	3.7	3 Chs Buck+2 Chs LDO	CSP2.42×2.82-36	SSD	3-Ch Buck and 2-Ch LDO; 1MHz I2C; OVP/SCP/OTP; Auto PWM/PFM or Forced PWM Controlled
SY8686FUXC	2.9	3.7	3 Chs Buck+2 Chs LDO	CSP2.42×2.82-36	SSD	3-Ch Buck and 2-Ch LDO; 1MHz I2C; OVP/SCP/OTP; Auto PWM/PFM or Forced PWM Controlled
SY8686KUXC	2.9	3.7	3 Chs Buck+2 Chs LDO	CSP2.42×2.82-36	SSD	3-Ch Buck and 2-Ch LDO; 1MHz I2C; OVP/SCP/OTP; Auto PWM/PFM or Forced PWM Controlled

HV PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY6402QVC	2.7	16	1	QFN3×4-19	SSD	Input-side current limit switch Bi-directional DC-DC Regulator with disconnect switch: Boost Charging Mode and Buck Discharging Mode .
SYT664RGC	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch Bi-directional DC/DC regulator, I2C interface.
SY8665TTC	4.5	28	2	QFN3×3-19	Notebook/Monitor/Desktop	Wide input voltage range, high efficiency PMIC for USB power delivery applications. The device integrates a 5A buck regulator, a external PMOS driver and a external NMOS driver to realize power path control.
SY8665DTTQ	4.5	28	2	QFN3×3-19	Notebook/Monitor/Desktop	Wide input voltage range, high efficiency PMIC for USB power delivery applications. The device integrates a 5A buck regulator, external PMOS driver and a external NMOS driver to realize power path control.
SY8688DPUC	2.6	28	3	CSP3.33×3.5 3-36	Mobile/POS	High integration power management unit with single-cell switching charger, I2C interface, OTG operation power path management, and 2-Channel flash LED driver for smart phone.
SY72001RGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch Bi-directional DC/DC regulator, I2C interface.
SY72025RGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch, Bi-directional DC/DC regulator, I2C interface.
SY72025ARGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch, Bi-directional DC/DC regulator, I2C interface.
SY72025BRGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch, Bi-directional DC/DC regulator, I2C interface.
SY72025CRGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch, Bi-directional DC/DC regulator, I2C interface.
NEW						
SY72025DRGQ	2.6	16	1	QFN4×4-25	SSD	Input-side reverse blocking switch, Bi-directional DC/DC regulator, I2C interface.

Panel PMIC

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY7510TQC	VGH:5V VGL:-18V	VGH:40V VGL:0V	14	QFN4×5-28	TV LCD Panel	14-Channel level shifter.
SY7511QFC	VGH=17V VGL=-18V	VGH=42V VGL=-3V	10	QFN4×4-32	TFT LCD Panel/MNT Panel	6 channel + 4 channel level shifter.
SY7512QAC	VGH=16V VGL=-20V	VGH=40V VGL=-3V	10	QFN4×4-28	TFT LCD Panel	6 channel level shifter with gate shaping function and 4 channel level shifter without gate shaping function.

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY7565QCC	8.6	15.9	3	QFN4×4-24	TV LCD Panel	a synchronous Boost regulator and 2 channel high speed operation amplifies for TV LCD panel.
SY7561UYC	2.5	4.8	3	CSP2.4×2.4-36	Smart Phone OLED panel	a synchronous boost regulator for ELVDD, a dual-phase buck-boost regulator for ELVSS, and a synchronous boost regulator for AVDD.
SY7566VFC	2.6	6	5	QFN3×3-22	NB TFT LCD Panel	an AVDD synchronous boost converter for source driver, a VGH asynchronous boost converter for gate driver, a VGL negative charge pump for gate driver, two high performance OPAMPs for HAVDD and VCOM rails, and a voltage detector RESET.
SY7570RMC	3.5	6	6	QFN6×6-48	TFT LCD Panel MNT Panel	AVDD Boost converter, VGH boost converter, VOFF2 & VSS negative charge pumps, two buck converters, one operational amplifier, 4ch gamma outputs, 4ch outputs level shifter.
SY7571RKC	8	18	22	QFN6×6-52	FHD TV LCD Panel	a synchronous Buck regulators, an AVDD Boost regulator, an HAVDD OPAMP, a positive and a negative charge pump controller for VGH and VGL, a gate pulse modulator VGHM, 14 channel gamma and 2 channel VCOM OPAMP.
SY7576QPC	8.6	14.7	4	QFN5×5-36	TFT LCD TV Panel	4 Phase AVDD Boost Controller.
SY7578TOQ	9.5	14.7	14	QFN8×8-72	TV LCD Panel	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, Gamma reference LDO.
SY7627RMC	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL0V	19	QFN6×6-48	TV LCD Panel	19-Channel level shifter.
SY7627ARMC	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL: 0V	19	QFN6×6-48	TV LCD Panel	19-Channel level shifter.
SY7627DRMQ	VDD: 2.6V VGH: 7V VGL: -20V VSS1/2: VGL+0.3V	VDD: 5.5V VGH: 40V VGL: 0V VSS1/2: VGL+0.3V	19	QFN6×6-48	TV LCD Panel	19-Channel level shifter.
SY7630CQCC	2.3	5.5	3	QFN4×4-24	Monitor/NB LCD Panel Power	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, GPM.
SY7634RPC	9.5	14	7	QFN5×5-40	UD TV LCD Panel	2 channel Buck regulators , an AVDD Boost regulator , a VGH Boost or charge pump controller, a VGL Buck-Boost or charge pump controller, and an OPAMP with temperature compensation.
SY7636ARMC	2.9	5.5	4	QFN6×6-48	E-Book/ E-Writer/ E-ink EPD	+/-15V LDOs for EPD source driver, adjustable pos. & neg. charge pumps for EPD gate driver, a VCOM OPAMP, temperature measurement function.
SY7686DCC	2.5	5.5	2	DFN3×3-12	PAD Panels/Active Matrix OLED	a synchronous boost regulator and a synchronous Buck-boost regulator.

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Number of Channels	Package	Application	Integrated Function
SY7687QEC	AVDD:6.5V DVDD:2.5V	AVDD:18V DVDD:3.6V	15	QFN5×5-32	TFT-LCD TVs/ Monitors/ PC	14 channel voltage references for gamma correction and one voltage reference for VCOM in TFT LCD panels.
SY7696BQEC	2.9	5.5	5	QFN5×5-32	Electronic Paper Display	a single-chip power management IC designed for electronic paper display.
SY71500QFQ	2.6	3.6	13	QFN4×4-32	TV LCD Panel	13 channel level shifters; OCP level 100mA.
SY71503QFQ	2.6	3.6	13	QFN4×4-32	TV LCD Panel	13 channel level shifters; OCP level 60mA
SY71600RPC	AVDD:11V	AVDD:20V DVDD:3.3V	8	QFN5×5-40	OLED TV Panel	8-channel gamma solution for OLED display.
SY71100TOQ	9.5	14.7	36	QFN8×8-72	UD TV LCD Panel	4ch Buck regulator, an AVDD Boost regulator, a VGH positive charge pump, a VGL negative charge pump, 3 channel operation amplifier, 14 channel gamma reference and 12 channel level shifters.



AC/DC

Backlighting

Part Number	App.Type	LED Channels	Input Voltage	LED Voltage	LED Current	Control Method	Switching Frequency	Package	Int.MOS
SY7301AADC/ SY7301ADBC	Handheld devices Backlight	1	2.8 to 40V	<40V	<300mA	Boost	1MHz	TSOT23-6 /DFN3x3-10	40V/2A
SY7203DBC	Handheld devices Backlight	1	2.8 to 30V	<30V	<300mA	Boost	1MHz	DFN3x3-10	30V/4A
SY7201ABC/ SY7201ADC/ SY7201AABC	Handheld devices Backlight	1	2.8 to 30V	<30V	<300mA	Boost	1MHz	TSOT23-6 /SOT23-6	30V/2A
SY7726POC	Phone/PAD Backlight	2	2.7 to 28V	<40V	<30mA	Boost+LDO	1MHz	CSP 1.31x1.31-9	40V/1A
SY7711BABC	TV Power Backlight	1	9-28vdc	<200V	<1.5A	Boost	120KHz	SOT23-6	NA
SY7728LFEC/ SY7728LFFC	Monitor Backlight	4	4.5-30V	<30V	<240mA	Boost + current sink	100KHz-1MHz	SOP16E/ SOP16	60V/3Ω
SY7759RBQ	Notebook or tablet Backlight	6	3V-24V	<40V	6-25mA	Boost+ current sink	100KHz-1.5MHz	QFN3.5x3.5	40V/200mΩ
SY7758QCQ	Notebook or tablet Backlight	6	2.7V-20V	<46V	<50mA	Boost+ current sink	320KHz-1.3MHz	QFN4.0x4.0	48V/200mΩ
SY7758VGS	Notebook or tablet Backlight	6	2.7V-20V	<46V	<50mA	Boost+ current sink	320KHz-1.3MHz	WLCSP2.43x1.77	48V/200mΩ
SY8717ABT	IR LED Backlight	1	4.5V-28V	27V	<0.8A	Syn Buck	1.8MHz	SOT23-6	28V/220mΩ
SY8719TQD	IR LED Backlight	1	4.5V-28V	27V	<1A	Syn Buck	1.8MHz	DFN1.8*1.4-6	28V/210mΩ

LED Lighting(AC-DC)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY58978UFAC	AC Buck non-dimming	>0.9	QR,Buck,4 Drain, no aux winding, Int. MOS 600V/2Ω	120/230V _{AC}	<20W	<300mA	SO8
SY58213FAC	AC Flyback non-dimming	>0.9	Self-Bias, QR, Buck, 4-Drain SO8, Int. comp. accurate OVP,650V/10Ω	230V _{AC}	<10W	NA	SO8
SY58215FAC	AC Flyback non-dimming	>0.9	Self-Bias, QR, Buck, 4-Drain SO8, Int. comp. accurate OVP, 650V/4.4Ω	230V _{AC}	<20W	NA	SO8
SY5839ABC	AC Buck non-dimming	>0.9	PSR, QR, CC, Buck controller	120/230V _{AC}	<100W	NA	SOT23-6
SY5830BABC	AC Flyback non-dimming	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller	120/230V _{AC}	<100W	NA	SOT23-6
SY5842FAC	AC Flyback non-dimming	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller, OTP, Line OVP & Brown-out	120/230V _{AC}	<80W		SO8
SY5861BFAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	<250mA	SO8
SY5862FAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	250~600mA	SO8
SY5863AJAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	0,25~1.2A	TO252-3
SY5864KAC	Ripple-Remover	NA	Ripple-Remover, Low BOM cost, Thermal Protection	NA	NA	0.5~1.5A	TO220-3
SY5867FAC	Dim-Interface	NA	3-in-1 Dimming Interface	NA	NA	NA	SO8
SY5867SFAC	Dim-Interface	NA	3-in-1 Dimming Interface	NA	NA	NA	SO8
SY58873UFAC	PFC_Boost_CV	>0.9	QR, CV, Boost, Int. MOS 520V/4.4Ω single winding	230V _{AC}	<50W		SO8
SY58874UFAC	PFC_Boost_CV	>0.9	QR, CV, Boost, Int. MOS 520V/3.4Ω single winding	230V _{AC}	<60W		SO8
SY58237AGC	AC Flyback non-dimming	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Int. MOS 650V/2.7Ω	400V _{DC}	<50W	NA	DIP8
SY58237CAGC	AC Flyback non-dimming	>0.5	Self-Bias, QR, Buck-Boost/Flyback,4 Drain, no aux winding, Jitter, Int. MOS 650V/2.7Ω	400V _{DC}	<50W	NA	DIP8
SY5951AFAC	Charge pump LLC non-dimming	>0.9	PSR, CC, ZVS, Charge Pump, LLC controller	230V _{AC}	<100W	NA	SO8
SY59515FAC	Charge pump LLC non-dimming	>0.9	PSR, CC, ZVS, Charge Pump, LLC, 4 Drain, Low side, Int. MOS 500V/1.1Ω	230V _{AC}	<45W	NA	SO8
SY59516FAC	Charge pump LLC non-dimming	>0.9	PSR, CC, ZVS, Charge Pump,LLC,4 Drain, High side, ,Int. MOS 500V/1.1Ω	230V _{AC}	<45W	NA	SO8
SY5072ABC	PFC_Boost_CV	>0.9	QR, CV, Boost	120/230V _{AC}	<300W		SOT23-6
SY5072BABC	PFC_Boost_CV	>0.9	QR, CV, Boost, Burst @light load	120/230V _{AC}	<300W		SOT23-6
SY5018BFAC	PFC_Flyback_CV	>0.9	PSR, QR, CV, Controller	120/230V _{AC}	<80W		SO8
NEW SY5018CFAP	PFC_Flyback_CV	>0.9	PSR, QR, CV, Controller,Low THD	120/230V _{AC}	<80W		SO8
SY5018SFAP	PFC_Flyback_CC_CV	>0.9	SSR, QR, CC, CV, Controller	120/230V _{AC}	<80W		SO8
SY5028ABC	PFC_Flyback_CV	>0.9	PSR, QR, CV, Controller	120/230V _{AC}	<60W		SOT23-6
SY50183FAC	PFC_Buck_CV	>0.9	PSR, QR, Buck CV, Int. MOS 500V/4.5Ω	120/230V _{AC}	<10W	<250mA	SO8
SY50186FAC	PFC_Buck_CV	>0.9	PSR, QR, Buck CV, Int. MOS 600V/2.2Ω	120/230V _{AC}	<16W	<400mA	SO8
SY5881FAC	AC Buck PWM Dimming	>0.9	PFC, CC, Buck Controller, PWM/Analog Dimming	120/230V _{AC}	<80W		SO8
SY5881ZFAC	DC Buck PWM Dimming	>0.5	CC, Buck Controller, PWM/Analog Dimming	40~400V _{DC}	<80W		SO8
SY5881SFAP	DC Buck	>0.5	CC, Buck Controller, Analog Dimming	40~400V _{DC}	<80W		SO8

LED Lighting(AC-DC)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
NEW SY5989FAP	AC Flyback 0-10V Dimming	>0.9	PFC,CC, Flyback controller, TRIAC and 0-10V Dimming	120/277V _{AC}	<80W		SO8
SY5983FAC	AC Flyback 0-10V Dimming	>0.9	PFC,CC, Flyback controller, 0-10V Dimming	120/277V _{AC}	<80W		SO8
NEW SY5987FAP	AC Boost 0-10V Dimming	>0.9	PFC,CC, Boost controller, 0-10V Dimming	120/277V _{AC}	<400W		SO8
SY5882NFAC	AC Flyback PWM Dimming	>0.9	PFC, CC, Flyback Controller, PWM/Analog Dimming	120/230V _{AC}	<80W		SO8
SY5882ZFAC	DC Flyback PWM Dimming	>0.5	CC, Flyback Controller, PWM/Analog Dim	400V _{DC}	<150W		SO8
NEW SY5882SFAP	DC Flyback PWM Dimming	>0.5	CC, Flyback Controller, PWM/Analog Dim, 25%~100% V _{OUT}	400V _{DC}	<150W		SO8
SY5955FFP	Boost+LLC Combo IC	PF>0.95 THD<5%	SSR,CC/CV Controller	120/277V _{ac}	<400W		SOP16
SY5886FAC	AC Flyback, Resistance Dimming	>0.9	PFC, CC, Flyback Controller, Multistage Dim	120/230V _{AC}	<80W		SO8
SY58561AAC	AC Buck Triac Dimming	>0.9	QR, CC, Buck, Triac Dimming, Low BOM cost, Int. MOS 350V/4.5Ω	120V _{AC}	<10W	<320mA	SOT23-5
SY58563FAC	AC Buck Triac Dimming	>0.9	QR, CC, Buck, Triac Dimming, Low BOM cost, 4 Drain, Int. MOS 350V/2.5Ω	120V _{AC}	<18W	<320mA	SO8
SY5852FAC	AC Flyback Triac Dimming	>0.9	PSR, QR, CC, Buck-Boost/Flyback controller, Triac Dimming, single winding	120/230V _{AC}	<40W	NA	SO8
SY58653FAC	AC Buck-Boost Triac Dimming	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 600V/7Ω, Triac Dimming, single winding	230V _{AC}	<12W	<200mA	SO8
SY58363AFAC	AC Buck-Boost Triac Dimming	>0.9	PSR, QR, CC, Buck-Boost/Flyback, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<15W	<200mA	SO8
SY58763AFAC	AC Boost Triac Dimming	>0.9	PSR, QR, CC, Boost, Int. MOS 350V/2Ω, Triac Dimming, single winding	120V _{AC}	<25W	<100mA	SO8
SY59101NFCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB148°C	120V _{AC}	<12W	<70mA	SO8E
SY59101AFCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB110°C	120V _{AC}	<12W	<70mA	SO8E
SY59101BFCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB122°C	120V _{AC}	<12W	<70mA	SO8E
SY59101CFCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB128°C	120V _{AC}	<12W	<70mA	SO8E
SY59101PFCP	AC Linear Triac Dimming	>0.9	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB148°C	120V _{AC}	<12W	<70mA	SO8E
SY59101QFCP	AC Linear Triac Dimming	>0.9	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB122°C	120V _{AC}	<12W	<70mA	SO8E
NEW SY59102N2FCP	AC Linear Triac Dimming	>0.9	Linear Triac Dimming, Int. MOS 350V/20Ω, TFB148°C, Low Current Ripple	120V _{AC}	<8W	<50mA	SO8E
SY59119A1FCC	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	16~45mA	SO8E
SY59119B1FCC	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	12~16mA	SO8E
SY59119C1FCC	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. MOS 500V	230V _{AC}	<12W	5~12mA	SO8E
SY59112A2FCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. Main MOS 500V and Bleeder MOS 700V, Low Current Ripple	230V _{AC}	<12W	16~30mA	SO8E
SY59112B4FCP	AC Linear Triac Dimming	>0.7	Linear Triac Dimming, Int. Main MOS 500V and Bleeder MOS 700V, Low Current Ripple	230V _{AC}	<12W	12~20mA	SO8E

LED Lighting(DC-DC)

Part Number	App.Type	Input Range(V)	Description	Max. LED Current	F(Hz)	Topology	Package
SY8702AABC	DCDC Buck	2.8V-30V	Buck, Int. 30V/200mΩ MOS, PWM dimming	500mA	300kHz	Buck	SOT23-6
SY8745AFCC	DCDC Buck	10V-60V	Buck, Int. 60V/160mΩ MOS, Analog/PWM dimming	1500mA	500kHz	Buck	SO8E
SY8746BFCC	DCDC Buck	12V-60V	Buck, Int. 60V/660mΩ MOS, ON/OFF dimming	800mA	350kHz	Buck	SO8E
SY8756AHHC	DCDC Buck	11V-55V	Buck Controller, RGBW 4 channel, PWM dimming	5A	Adjustable frequency	Buck	TSSOP24E
SY8759FFP	DCDC Buck	33V-92V	Buck Controller, Precision Analog Dimming	5A	Adjustable frequency	Buck	SOP16
NEW SY87596FFP	DCDC Buck	33V-92V	Buck Controller, Precision Analog Dimming 100V/150mΩ MOS	1.5A	Adjustable frequency	Buck	SOP16
SY8703ABC	IR LED	2.8V-30V	Buck,Int. 30V/200mΩ MOS,PWM dimming	1.0A	1M	Buck	SOT23-6
SY8705FCC	IR LED	2.8V-30V	Buck,Int. 30V/100mΩ MOS,PWM dimming,	3.0A	1M	Buck	SO8E
SY8705BFCC	IR LED	2.8V-30V	Buck. Int.30V/100mΩ MOS,PWM dimming,Small dimming scale accuracy	3.0A	1M	Buck	SO8E
SY8707ABC	IR LED	2.8V-30V	Buck. Int.30V/100mΩ MOS,Analog dimming,	1.5A	1M	Buck	SOT23-6
SY8708ABC	IR LED	2.8V-25V	Buck. Int. 25V/200mΩ MOS,Analog dimming,	0.8A	1M	Buck	SOT23-6
SY8718A1ADC	IR LED	4.0V-23V	SYN Buck,Int. 23V/125mΩ&23V/75mΩ MOS,PWM dimming,Small dimming scale accuracy	2.0A	1M	Buck	TSOT23-6
SY8718B1ADC	IR LED	4.0V-23V	SYN Buck,Int. 23V/125mΩ&23V/75mΩ MOS,PWM dimming,Small dimming scale accuracy	1.5A	1M	Buck	TSOT23-6
SY8718H1ADC	IR LED	4.0V-23V	SYN Buck,Int. 23V/125mΩ&23V/75mΩ MOS,Analog dimming,Small dimming scale accuracy down to 1% dimming scale	1.5A	1M	Buck	TSOT23-6
SY7200AABC	IR LED	2.8V-30V	Boost,Int.30V/220mΩ MOS,PWM dimming	2.0A	1M	Boost	SOT23-6
SY7310AADC	IR LED	2.7V-5.5V	Boost,Int.40V/400mΩ MOS,PWM dimming,Small dimming scale accuracy	1.0A	1M	Boost	SOT23-6
SY7807DEC	Flash LED Driver	2.7V-5.5V	Syn Boost,PWM dimming	IFLASH<1.5A,ITORCH<300 mA	2M	Boost	DFN2*2_6
SY7809PSC	Flash LED Driver,I2C	2.7V-5.5V	Syn Boost+ Current Source	IFLASH<1.5A,ITORCH<358 mA	2M/4M	Boost	CSP1.79*1.46 -12
SY7803BDUC	Flash LED Driver	2.7V-5.5V	Syn Boost+ Current Source,PWM dimming	Each channel IFLASH<1.0A,ITORCH<200 mA	2M	Boost	DFN3*2-14
SY7806PSC	Flash LED Driver,I2C	2.7V-5.5V	Syn Boost+ Current Source	Each channel IFLASH<1.5A,ITORCH<180 mA	2M/4M	Boost	CSP1.79*1.46 -12
SY7806BPSC	Flash LED Driver,I2C	2.7V-5.5V	Syn Boost+ Current Source	Each channel IFLASH<1.5A,ITORCH<180 mA	2M/4M	Boost	CSP1.79*1.46 -12
SY7806EPSC	Flash LED Driver,I2C	2.7V-5.5V	Syn Boost+ Current Source	Each channel IFLASH<1.5A,ITORCH<358 mA	2M/4M	Boost	CSP1.79*1.46 -12
SY7808BPVC	Flash LED Driver,I2C	2.7V-5.5V	Syn Boost+ Current Source	3-channel ITORCH<180mA,2-channel IFLASH<1.5A	2M/4M	Boost	CSP1.79*1.57 -12

LED Lighting(MR16)

Part Number	App.Type	PF	Description	Input V _{AC}	Output Power	Output Current	Package
SY7305ABC	MR16 non-dim	>0.9	Boost, Int.40V/220mΩ MOS	12V _{AC}	<5W	<300mA	SOT23-6
SY7306FCC	MR16 non-dim	>0.9	Boost, Int.40V/220mΩ MOS	12V _{AC}	<8W	>18Vout	SO8E
SY7308FPC	MR16 non-dim	>0.9	Boost, Int.40V/120mΩ MOS	12V _{AC}	<5W	>18Vout	CPC8
SY8726BHFC	MR16 dimmable	>0.9	Boost+Buck, Int.40V/100mΩ MOS, Best compatibility	12V _{AC}	<10W	8~24Vout	TSSOP16E
SY8727FCC	MR16 dimmable	>0.9	Boost+LDO, Int.40V/120mΩ MOS, Best compatibility	12V _{AC}	<8W	>18Vout	SO8E
SY7400FCC	MR16 dimmable		Boost, Int.60V/650mΩ MOS		<20W	>18Vout	SO8E
SY7400LABC	MR16 dimmable		Boost, Int.60V/650mΩ MOS		<15W	8~24Vout	SOT23-6

AC-DC PSR Flyback Controller for Charger and Adapter

Part Number	Function	Operation Mode	HV Startup	OCP Protection	OVP Protection	UVP Protection	No Load Loss	Package
SY5007ABC	PSR Flyback Controller without UVP	QR	NO	YES	YES	NO	<75mW	SOT23-6
SY5007AABC	PSR Flyback Controller with UVP	QR	NO	YES	YES	YES	<75mW	SOT23-6

AC-DC PSR Flyback Converter with 600V~700V MOS Integrated for Charger and Adapter

Part Number	Function	Max Power	Integrated FETs	Typical Rdson	Operation Mode	HV Startup	OCP Protection	OVP Protection	UVP Protection	No Load Loss	Package
SY50213MFAP	PSR Flyback without UVP	12W	650V	4.4Ω	QR	NO	YES	YES	NO	<75mW	SO8
SY50213NFAP	PSR Flyback with UVP	12W	650V	4.4Ω	QR	NO	YES	YES	YES	<75mW	SO8
SY50136ZFAC	PSR Flyback without UVP	18W	620V	2.2Ω	QR	NO	YES	YES	NO	<75mW	SO8
NEW SY50216NFAP	PSR Flyback with UVP	18W	650V	2.2Ω	QR	NO	YES	YES	YES	<75mW	SO8
SY50218VFAC	PSR Flyback without UVP	24W	650V	1.2Ω	QR	NO	YES	YES	NO	<75mW	SO8
SY50323FQC	PSR Flyback with HV Start Up	12W	700V	4Ω	QR	YES	YES	YES	YES	<20mW	SO7

AC-DC PSR Flyback Converter with 800V~1000V BJT Integrated for Charger and Adapter

Part Number	Function	Max Power	Integrated FETs	Operation Mode	HV Startup	OCP Protection	OVP Protection	UVP Protection	No Load Loss	Package
SY50131CFAC	PSR Flyback with UVP	3.5W	980V	QR	NO	YES	YES	YES	<75mW	SO8
SY50211WAZC	PSR Flyback without UVP	6W	800V	QR	NO	YES	YES	NO	<75mW	SOT335
SY50213WFAC	PSR Flyback without UVP	12W	800V	QR	NO	YES	YES	NO	<75mW	SO8

AC-DC SSR Flyback Controller for Charger and Adapter

Part Number	Function	Operation Mode	Max Frequency	HV Startup	OCP Protection	OVP Protection	UVP Protection	BO/BI	Input OVP Protection	No Load Loss	Package
SY5003CABC	QR SSR Flyback Controller	QR	125kHz	NO	YES	YES	NO	NO	NO	<75mW	SOT23-6
NEW SY5019FAC	QR SSR Flyback Controller with HV Start Up	QR	125kHz	YES	YES	YES	NO	NO	NO	<50mW	SO8
SY5040ABC	CCM+QR SSR Flyback Controller	CCM/QR	65kHz	NO	NO	YES	NO	YES	NO	<75mW	SOT23-6
SY5033CFAP	CCM+QR SSR Flyback Controller with Input OVP	CCM/QR	90kHz	YES	NO	YES	YES	YES	YES	<50mW	SO8
NEW SY5022BFVP	QR SSR Flyback Controller with GaN Driver	QR	300kHz	YES	NO	YES	YES	YES	NO	<50mW	SSOP9

AC-DC SSR Flyback Converter with 700V E-mode GaN Integrated for Charger and Adapter

Part Number	Function	Integrated FETs	Typical Rdson	Operation Mode	Max Frequency	HV Startup	Lock Ring	OVP Protection	UVP Protection	BO/BI	No Load Loss	Package
SY50296XDQ	QR SSR Flyback for Max 100W	700V	165mΩ	QR	500kHz	YES	YES	YES	YES	YES	<50mW	QFN 5×7-18
NEW SY50298XDQ	QR SSR Flyback for Max 180W	700V	104mΩ	QR	500kHz	YES	YES	YES	YES	YES	<50mW	QFN 5×7-18
NEW SY50307HZP	CCM+QR SSR Flyback for Max 35W	700V	365mΩ	CCM/QR	90kHz	YES	NO	YES	YES	YES	<5mW	SSOP9E

AC-DC SR Controller for Charger and Adapter

Part Number	Function	Operation Mode	Max DSEN	SR Position	Dual Supply Channel	ZVS Function	Package
SY5231AABT	CCM SR Controller	CCM/QR/DCM	200V	High Side / Low Side	YES	NO	SOT23-6
SY5239FPP	ZVS SR Controller	QR/DCM	130V	High Side / Low Side	YES	YES	CPC8

AC-DC SR Switcher with 40V~100V MOS Integrated for Charger and Adapter

Part Number	Function	Integrated FETs	Typical Rdson	Operation Mode	SR Position	Dual Supply Channel	Package
NEW SY52157AZC	SR Switcher for QR Mode	40V	16mΩ	QR/DCM	High Side / Low Side	NO	SOT335
NEW SY52151FAP	SR Switcher for QR Mode	40V	12mΩ	QR/DCM	High Side / Low Side	NO	SO8
SY52257AAZC	SR Switcher for QR Mode	60V	19mΩ	QR/DCM	High Side / Low Side	NO	SOT335
SY52251FAC	SR Switcher for QR Mode	60V	10mΩ	QR/DCM	High Side / Low Side	NO	SO8
SY52341FAP	SR Switcher for CCM+QR Mode	65V	8.7mΩ	CCM/QR/DCM	High Side / Low Side	YES	SO8
NEW SY52441FAP	SR Switcher for CCM+QR Mode	100V	8mΩ	CCM/QR/DCM	High Side / Low Side	YES	SO8

AC-DC Buck Converter with 500V~700V MOS Integrated for Home Appliances

Part Number	Function	Max Power	Integrated FETs	Typical Rdson	Output Voltage	Operation Mode	Max Frequency	HV Startup	OCP Protection	OVP Protection	Package
SY50281AAC	Buck Converter	2.4W	500V	12Ω	Adjustable	QR	45kHz	NO	YES	YES	SOT23-5
SY50583FAC	Buck Converter	4.2W	700V	7.5Ω	Adjustable	QR	45kHz	NO	YES	YES	SO8
NEW SY50271BFAC	Buck Converter for 12V Output	4.3W	650V	9Ω	12V	CCM/DCM	40kHz	YES	NO	YES	SO8
SY50272AGC	Buck Converter for 18V Output	6.5W	650V	9.2Ω	18V	CCM/DCM	40kHz	YES	NO	YES	DIP8
SY50272BAGC	Buck Converter for 12V Output	4.3W	650V	11.5Ω	12V	CCM/DCM	40kHz	YES	NO	YES	DIP8

AC-DC PSR Flyback Converter with 900V MOS Integrated for Power Meter

Part Number	Function	Max Power	Integrated FETs	Typical Rdson	Operation Mode	Max Frequency	HV Startup	OCP Protection	OVP Protection	No Load Loss	Package
SY50433BFHC	PSR Flyback	7W	900V	13.4Ω	QR	125kHz	YES	YES	YES	<75mW	SSOP10

AC-DC PFC+LLC Controller for TV/PC/Gaming Adapter

Part Number	Function	Operation Mode	Control Mode	Protection	Support DC Input	Package
SY5055AHXP	PFC+LLC Combo Controller	PFC: CrM/DCM/Burst LLC: CCM/DCM/Burst	PFC: Average current mode LLC: Current mode	AC Brown in/out, OCP, OVP, OTP, PFC OPP	NO	SOP14

IEEE 802.3 af/at PoE PD Interface Controller

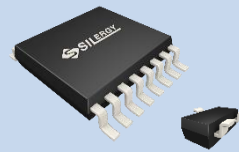
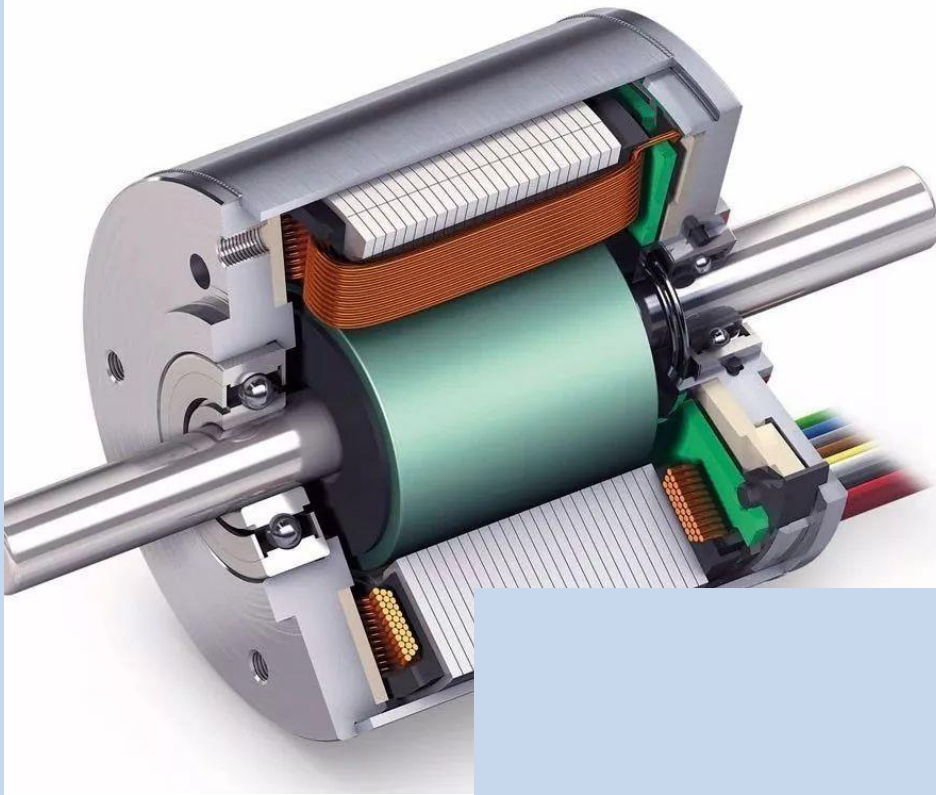
Part Number	Function	Package	Integrated FET	Max Power	VIN Range	AMPS Function	OCP	OVP
NEW								
SY5601AFCP	af/at Interface	SO8E	YES	<25W	POE	YES	YES	NO

Isolated DC-DC Flyback Converter

Part Number	Function	FSW_MAX	Package	Integrated FETs	Max Power	V _{IN} Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Soft Start	No load loss
SY6174FAC	PSR Flyback	120kHz	SO8	200V	8W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW
SY6177FAC	PSR Flyback	120kHz	SO8	200V	12W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW
SY50833AFAC	PSR Flyback	300kHz	SO8	200V	12W	36-72VDC or POE	YES	NO	YES	YES	NO	<75mW

IEEE 802.3 af PoE PD Interface with High Frequency Flyback Converter

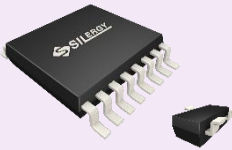
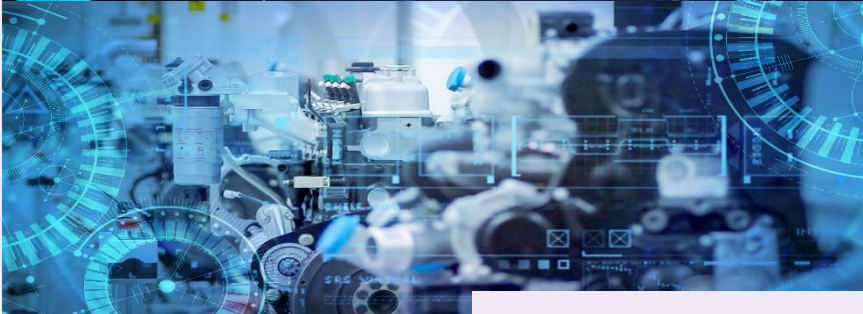
Part Number	Function	FSW_MAX	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OCP	OVP	AMPS Function
SY56815ATQQ	POE PD+PSR Flyback converter	600kHz	QFN4x5-28	YES	<13W	POE	YES	NO	YES	YES	YES



Motor Driver

Motor Driver

Part Number	Recommended Operating Voltage		Drive Current	MOSFET Ron	Low power	Package	Typical Applications
	Min (V)	Max (V)	Max (A)	HS+LS (mΩ)	Sleep Mode		
SY6702DFC	2.5	12	1.8	<450mΩ	√	DFN2x2-8	Cameras, DSLR Lenses, Consumer Products, Robotics, Toys
SY6712ABC	2.5	12	1.8	< 450mΩ		SOT23-6	Cameras, DSLR Lenses, Consumer Products, Robotics, Toys
SY6703HFC	2.5	12	1.5	<480mΩ	√	TSSOP-16E	POS Printers, Consumer Products, Robotics, Game Machines, Toys
SY6703QIC	2.5	12	1.5	<480mΩ	√	QFN4×4-16	POS Printers, Consumer Products, Robotics, Game Machines, Toys
SY6705BFCC	8	32	3.5	<420mΩ	√	SO8E	Consumer Products, Robotics, DC Brush Motor
SY67211FHC	2.5	16	0.8	<700mΩ	√	SSOP10	Refrigerators, Stepper Motors
SY67134FCC	5	32	3.6	<500mΩ	√	SO8E	Consumer Products, Robotics, DC Brush Motor
SY67333HHC	5	32	3	< 250mΩ	√	TSSOP24E	Appliance Fan, 3-phase BLDC Fan, HVAC
SY67221HKP	2.7	18	1.5	<670mΩ	√	TSSOP16	Refrigerators, DC Brush Motors, Solenoid Valve Load
SY67626RPQ	5	26	6.5	<140mΩ	√	QFN5×5-40	3-Phase BLDC Motor Driver
NEW SY67343HHP	5	32	3	<240mΩ	√	TSSOP24E	Fan, Pump, HVAC



Signal Chain

Class-D Amplifier

Part Number	Input	Ch(#)	Vs_min(V)	Vs_max(V)	Load_min(Ω)	Po(W/Ch)	THD+N(%)@ 1W	SNR(dB)	Features	Package
SY6014QCC	Analog	2	5.5	16	6	7	0.05	100.5	Filter-less	QFN4×4-24
SY6014AQCC	Analog	2	5.5	12	6	4	0.05	100.5	Filter-less	QFN4×4-24
SY6018QEC	Analog	2	6	26	3.2	30	0.03	105.5	AM Avoidance	QFN5×5-32
SY6018BQEC	Analog	1	5.6	26	2.5	60	0.028	106	AM Avoidance	QFN5×5-32
SY6028QEC	Analog	2	5.6	16	3.2	20	0.026	104.1	AM Avoidance	QFN5×5-32
SY6045AQEC	Digital	2	4.5	28	4	20	0.025	101	3.3V/1.8V I/F, 3 Band+ Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT	QFN5×5-32
SY6045BQHC	Digital	2	4.5	28	4	20	0.041	101	3 Band + Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT	QFN6×6-40
SY6045SGAC	Digital	2	4.5	28	4	30	0.026	101.3	3 Band + Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT	TQFP7×7-48
SY6045SQHC	Digital	2	4.5	28	4	30	0.026	101.3	3 Band+ Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT	QFN6×6-40
SY6065SGAC	Digital	2	4.5	28	4	30	0.026	101.3	3 Band + Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT, Capless Headphone Driver	TQFP7×7-48
SY6075DGAC	Digital	2	4.5	28	4	20	0.055	100.7	3 Band + Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT	TQFP7x7-48
SY60050GAF	Digital	2	4.5	28	4	20	0.055	100.7	3 Band + Post band DRC, 12 PEQs + 6 SPEQs, SDOUT	TQFP7x7-48
SY60020QHQ	Digital	2	4.5	28	4	20	0.041	101	3 Band + Post Band DRC, 12 PEQs + 6 SPEQs, SDOUT, 4 I2C Address	QFN6×6-40

Part Number	Input	Ch(#)	Vs_min(V)	Vs_max(V)	Po(W) @ 1%THD+N	PSRR(dB)	THD+N(%)	SNR (dB)	Features	Package
SY6040QDC	Analog	2	2.2	5.5	21m	83	0.015	106	capacitor-less	QFN3×3-16

Analog Light Sensor

Part Number	Description	IR-Cut Epoxy	V _{CC}		I _{OUT} (μA) @EV=100lux, V _{CC} =3V	Package
			Min (V)	Max (V)		
SY13103-G1	Ambient Light Sensor	/	2.5	5.5	120	N/A

Digital Light Sensor

Part Number	Description	Bits	V _{CC}		Comm. Method	I _{DD} @ Power Down	I _{OUT} (μA) @EV=100lux, V _{CC} =3V	Finest Resolution	Gain & Tint Setting	Package
			Min(V)	Max(V)						
SY3061-S1	ALS with side-look package	12	2.3	3.6	I ² C	<1.0uA	110uA	0.029 lux/count	5 gain	SMD3013-4L side-look
SY13079-G1	Ambient Light Sensor	16	2.3	3.6	I ² C	<1.0uA	90uA	0.007 lux/count	3 gain+2 integration time	N/A
SY3079AS22-J01	Ambient Light Sensor	16	2.6	3.6	I ² C	<1.0μA	90uA	0.0079 lux/count	3 gain+2 integration time	SMD2015-8L
SY3122-H2	Light Sensor with Frequency Output	/	2.7	3.6	/	/	/	2.76 kHz/(uW/cm ²)	/	/
SY3016PS32-G00	PXS	16	2.8	3.6	I ² C	<2.0μA	/	/	/	SMD2515-6L
SY3132CS42-J10	11-Channel Multi-Spectrum Sensor	16	1.7	2.0	I ² C	<20μA	450μA@V _{CC} =1.8V	/	12 gain+ 9 integration time	SMD3120-8L

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT13L05AOC	USB2.0	2	Bi	5	3.5	2	24	SOT-23
SYT06U05ABC	USB/VGA/HDMI	4	Uni	5	0.6	3	36	SOT23-6
SYT07S05SBC	USB3.0	6	Uni	5	0.3	3	45	DFN4.1×2.0-10
SYT06U05DVC	HDMI1.4	4	Uni	5	0.6	3	36	DFN2.5×1.0-10
SYT16S03DVC	HDMI/USB	4	Bi	3.3	0.25	3	50	DFN2.5×1.0-10
SYT03S05SHC	USB2.0, Smart Phone	2	Uni	5	0.6	4	50	DFN1.2×1.0-6
SYT03S05SIC	USB2.0, Smart Phone	2	Uni	5	0.6	4	50	DFN1.6×1.0-6
SYT13U05AOC	USB2.0	2	Uni	5	0.6	4	50	SOT-23
SYT01N24DWC	USB Vbus, Smart Phone	1	Bi	24	12	4	180	DFN1.0×0.6-2
SYT01M12DWC	12V Low Speed Interface	1	Bi	12	4	4	90	DFN1.0×0.6-2
SYT01M12DXC	12V Low Speed Interface	1	Bi	12	4	4	90	DFN0.6×0.3-2
SYT01A05DXC	5V High Speed Interface, USB-C	1	Bi	5	0.15	4	55	DFN0.6×0.3-2
SYT18A03SFC	USB3.x	8	Uni	3.3	0.42	6	30	DFN3.8×1.0-9
SYT13S03SMD	USB2.0	2	Uni	3.3	0.42	7	40	DFN1.0×0.6-3
SYT02U05DWC	USB3.0	1	Uni	5	0.5	4	50	DFN1.0×0.6-2
SYT46S05DVD	HDMI/USB	4	Bi	5	0.5	4.5	45	DFN2.5×1.0-10
SYT21S05DWC	HDMI/USB	1	Bi	5	0.5	4.5	45	DFN1.0×0.6-2
SYT26S05DVC	HDMI/USB	4	Uni	5	0.5	6	42	DFN2.5×1.0-10
SYT46S03DVD	HDMI/USB	4	Bi	3.3	0.4	7	56	DFN2.5×1.0-10
SYT01N12DWC	USB Vbus, Smart Phone	1	Bi	12	25	7.5	210	DFN1.0×0.6-2
SYT04L05AWC	USB2.0	2	Uni	5	1.2	7.5	100	SOT-143

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT05S05ABC	USB/VGA	4	Uni	5	1.2	8	100	SOT23-6
SYT21A05DXC	USB3.x, USB Type-C	1	Bi	5	0.2	9	55	DFN0.6×0.3-2
SYT21S24DXC	USB-C/RF Antenna	2	Bi	24.5	0.2	9	50	DFN0.6×0.3-2
SYT11L05DWC	Normal Cap ESD for General I/O	1	Bi	5	2	10	100	DFN1.0×0.6-2
SYT11L05DXC	Normal Cap ESD for General I/O	1	Bi	5	2	10	100	DFN0.6×0.3-2
SYT21A05DWD	Ultra-low Cap ESD for High-speed Interface	1	Bi	5	0.28	10	65	DFN1.0×0.6-2
SYT01L03DWC	3.3V High Speed Interface	1	Bi	3.3	1	12	120	DFN1.0×0.6-2
SYT01L03DXC	3.3V High Speed Interface	1	Bi	3.3	1	12	120	DFN0.6×0.3-2
SYT36S03DVC	Low Cap ESD Array for High-speed Interface	4	Uni	3.3	0.6	12	60	DFN2.5×1.0-10
SYT13L03AOC	high-speed & general IO ESD protection	2	Bi	3.6	1	12	120	SOT-23
SYT01N05ANC	Audio/Key	1	Bi	5	30	12	130	SOD523
SYT01N03ANC	Audio/Key	1	Bi	3.3	27	15	140	SOD523
SYT01N03DWC	Audio/Key	1	Bi	3.3	27	15	140	DFN1.0×0.6-2
SYT01N03DXC	3.3V Low Speed Interface	1	Bi	3.3	27	15	140	DFN0.6×0.3-2
SYT06L05ABC	VGA/RJ45	4	Uni	5	3.5	20	350	SOT23-6
SYT31A01DXD	USB4,TB4,USB TYPE-C	1	Bi	1.5	0.17	6	24	DFN0.6x0.3-2
SYT36A03DVD	HDMI2.1	4	Uni	3.3	0.25	7	70	DFN2.5x1.0-10

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _j (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYT11N05DWD	Audio/Key	1	Bi	5	23	10	90	DFN1.0x0.6-2
SYT11N05DXD	Audio/Key	1	Bi	5	23	10	90	DFN0.6x0.3-2
SYT21N05DWD	Audio/Key	1	Bi	5	45	20	180	DFN1.0x0.6-2
SYT11M05DWD	Audio/Key	1	Bi	5	14	9	75	DFN1.0x0.6-2
SYT11M05DXD	Audio/Key	1	Bi	5	14	9	75	DFN0.6x0.3-2
SYT11M03DWD	Audio/Key	1	Bi	3.3	17	10	65	DFN1.0x0.6-2
SYT11M03DXD	Audio/Key	1	Bi	3.3	17	10	65	DFN0.6x0.3-2
SYT31S05DWD	USB3.x,USB2.0	1	Bi	5	0.45	15	100	DFN1.0x0.6-2
SYT43L05SMD	USB2.0	2	Bi	5	2	10	100	DFN1.0x0.6-3
SYT26A03DVC	USB3.x, USB Type-C	4	Uni	3.3	0.38	10	55	DFN2.5*1.0-10
SYT26A05DVD	USB3.x, USB Type-C	4	Uni	5	0.38	10	55	DFN2.5*1.0-10

EMI Filter

Part Number	Application	Channels	Direction	V _{RWM} (V)	fc(GHz)	IL	Atten	Package
SYE40C02SSC	MIPI/HDMI	4	Uni	5	4.0	-0.33dB@10MHz	-35dB@1.5GHz	DFN2.5×2.0-10
SYE1104TXD	LCD/Camera	4	Uni	5	0.25	-6dB@10MHz	-20dB@0.8GHz	DFN1.6×1.0-8
SYE1106TLD	LCD/Camera	6	Uni	5	0.25	-6dB@10MHz	-20dB@0.8GHz	DFN2.5×1.35-12

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS11U24AMC	RJ45	1	Bi	24	0.6	6	550	SOD323
SYS03N24AOC	RS232,STB	2	Uni	24	120	8	300	SOT-23
SYS11U15AMC	RJ45	1	Bi	15	0.8	10	550	SOD323
SYS11U12AMC	RJ45	1	Bi	12	0.6	12	550	SOD323
SYS02H12AMC	DC IN	1	Uni	12	150	20	500	SOD323
SYS11U05AMC	RJ45	1	Bi	5	0.6	20	550	SOD323
SYS03H12AOC	Desktops, Servers and Notebooks	2	Uni	12	140	20	500	SOT-23
SYS01V05AMC	DC IN	1	Bi	5	200	24	350	SOD323
SYS11U03AMC	RJ45	1	Bi	3.3	0.6	25	550	SOD323
SYS11L03SEC	RJ45	4	Uni	3.3	3.5	25	450	DFN2.5×2.5-10
SYS12V20SLC	Vbus	1	Uni	20	210	25	850	DFN1.6×1.0-2
SYS02V05AMC	DC IN	1	Uni	5	350	40	500	SOD323
SYS14L02DHC	RJ45	4	Uni	2.5	3.5	40	1000	DFN3.0×2.0-10
SYS02V12AMC	12V Vbus surge protection	1	Uni	12	400	42	1000	SOD323
SYS42L02FAC	RJ45	2	Bi	2.8	1.2	50	1000	SOP-8
SYS12V12SLC	Vbus	1	Uni	12.5	400	52	1100	DFN1.6×1.0-2
SYS12V05SLC	Vbattery,Smart Phone	1	Uni	5	1100	100	1300	DFN1.6×1.0-2
SYS12V05AMC	Surge protection TVS for Power line	1	Uni	5.5	1100	100	1300	SOD-323
SYS32V05SLD	Vbus/Vbat	1	Uni	5	600	100	800	DFN1.6×1.0-2

Part Number	Application	Channels	Direction	V _{RWM} (V)	C _J (pF)	I _{PP} (A)	P _{PK} (W)	Package
SYS22V05SLC	Vbus & Vbat surge protection	1	Uni	5	2100	200	2100	DFN1.6×1.0-2
SYS22V04SLC	Vbus & Vbat surge protection	1	Uni	4.5	1100	240	3100	DFN1.6×1.0-2
SYS02H24DWD	Vbus/Vbat	1	Uni	24	85	9	320	DFN1.0×0.6-2
SYS12V28SLD	VBUS	1	Uni	28	140	22	1000	DFN1.6x1.0-2
SYS12V36SLD	VBUS	1	Uni	36	95	17	900	DFN1.6x1.0-2
SYS12V48SLD	VBUS	1	Uni	48	60	12	750	DFN1.6x1.0-2
SYS04M12THD	RS485	2	Uni	12	6	100	3000	DFN2.0x2.0-5
SYS22X24TPD	20V VBUS surge	1	Uni	20	900	150	5100	DFN2.0*2.0-3

Part Number	I/O Pins	LUTs	DFF/ Latches	CNT/ Delays	ASM	Interface	RC Oscillators	Analog Glitch Filters	Analog ACMPs	VDD	Special Features	Package
SY33518CVYQ	18	17	4	6	Y	I2C/UART	25KHz/2MHz/ 25MHz	2	4	3.3V/5V	2x Vref out	QFN2×3-20

Contact Us

Silergy Corp. was founded by a group of technology innovators and business leaders with an average 30 years' experience. We design innovative mixed-signal and analog ICs that utilize our industry-leading process technologies. Widely used in automotive, industrial, consumer, computing and communication devices, our products are designed to improve efficiency and to conserve or measure energy use.

Silergy Corp is a Cayman Island company with its operations headquarters in Hangzhou, China. The company stock is traded on Taiwan Stock Exchange (TWSE: 6415).

We are committed to providing industry-leading performance at an affordable solution cost.

HANGZHOU

No.6, Lianhui St., Binjiang District, Hangzhou, Zhejiang, China
+86-571-87759971

SHENZHEN

Rm.1006, Tower A, Skyworth Building, High-tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China, P.R.C, Zip code: 518057
Telephone: +86-755-83664630

SHANGHAI

Wanyuan road no. 2163 building B 3A-5room Minhang district Shanghai
Telephone: +86-61510950

NEW TAIPEI

10F., No.653, Bannan Rd., Zhonghe Dist., New Taipei City 23557, Taiwan
Telephone: +886-2-2221-5266 Fax: +886-2-2221-5778

KOREA

(Zip code 446-982), #1202, 120, Heungdeok Jungang-Ro, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea
Telephone: +82-70-8667-8128

JAPAN

Kannai Tosei Bldg. II 4Chome 45-1 Sumiyoshicho, Naka-ku, Yokohama-shi Kanagawa, 231-0031, Japan
Tel: +81-45-228-9856
Fax: +81-45-228-9857
Email:sales.japan@silergy.com

INDIA

501,Prestige Towers,Residency Road, Bangalore, Kamataka, India
Tel: +91-9891139579
Email: Rajiv.kumar@silergy.com

EMEA

Telephone:+44 121 449 1010
sales.emea@silergy.com
(support for sales, quotations, FAE technical support, product recommendations)

AMERICAS

North American Headquarters
2600 Great America Way, Suite 601
Santa Clara, Ca 95054
+14087465696
Email:sales.americas@silergy.com

Website: <https://www.silergy.com>

Email: sales@silergycorp.com **(support for sales, quotation, order, etc.)**

Email: marketing@silergycorp.com **(FAE technical support, product recommendation)**

Official Accounts :

