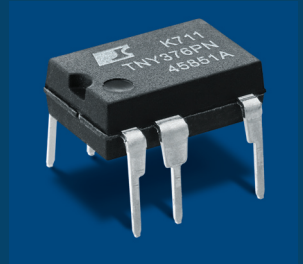


Innovation in power conversion

Product Selector Guide

AC-DC Products

April 2011



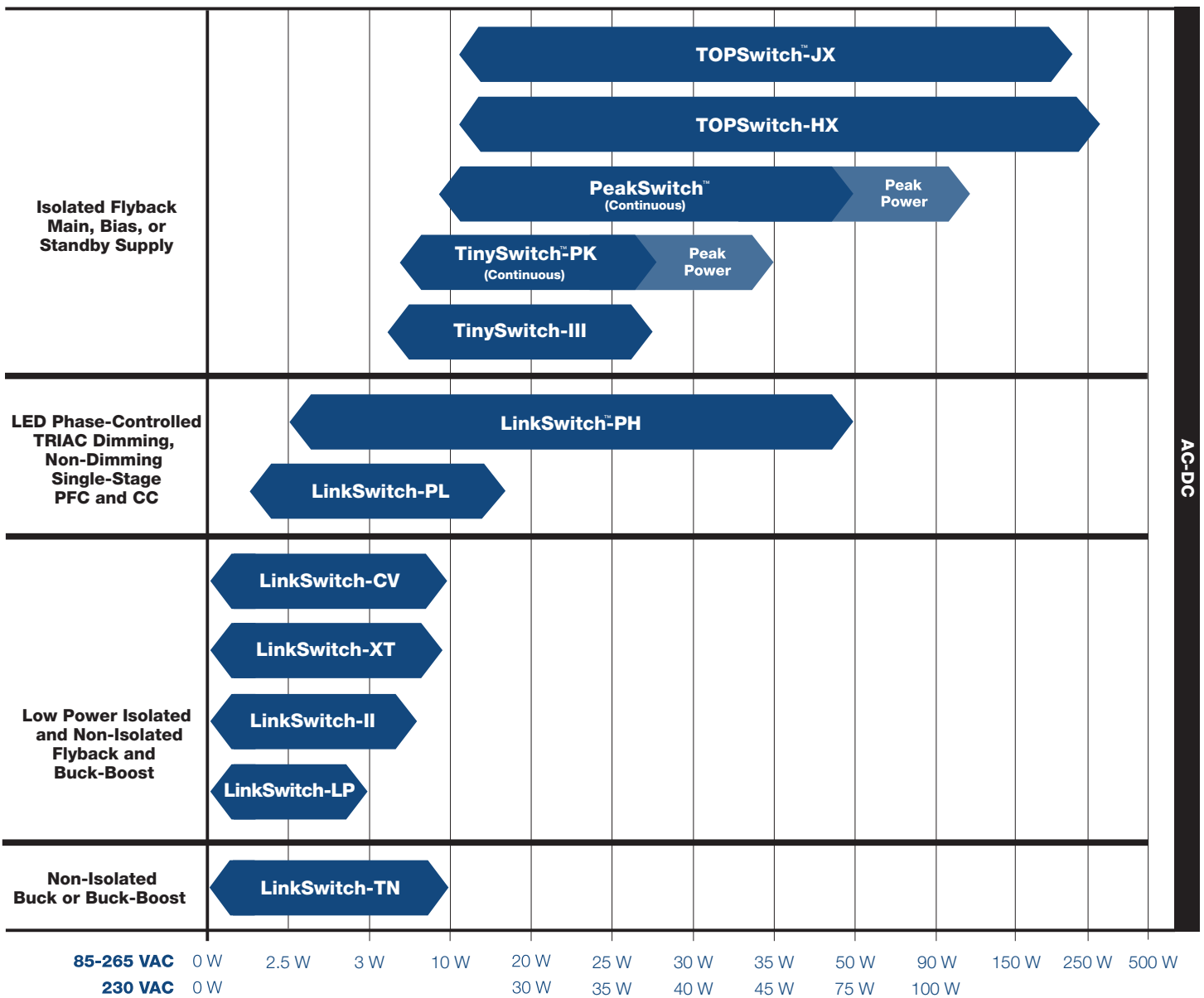
About Power Integrations

Power Integrations is the leading supplier of high-voltage analog integrated circuits used in energy-efficient power supplies. The company's innovative technology enables compact, energy-efficient power converters for a wide range of electronic products, AC-DC, DC-DC and LED lighting applications. With industry-leading product quality and delivery, the company has shipped billions of devices to customers around the world.

Since its introduction in 1998, EcoSmart™ energy-efficiency technology has saved an estimated \$3.5 billion of standby energy waste. These savings equate to approximately 31 billion kilowatt-hours of electricity – an amount which, if produced by coal-burning power plants, would have resulted in approximately 20 million tons of carbon emissions, roughly equal to the annual emissions of 3 million automobiles.

For more information, please visit www.powerint.com.

AC-DC Product Overview



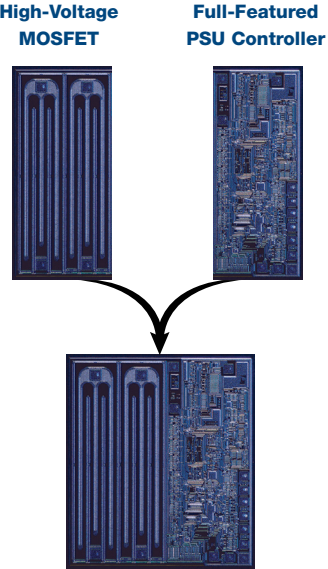
Design Simplification

Enabling Predictable Success

Power Integrations' highly integrated ICs enable the design and production of switch-mode power supplies that use up to 70% fewer components compared to discrete solutions. Switchers that incorporate our ICs are smaller, lighter, and more portable than comparable power supplies built with linear transformers.

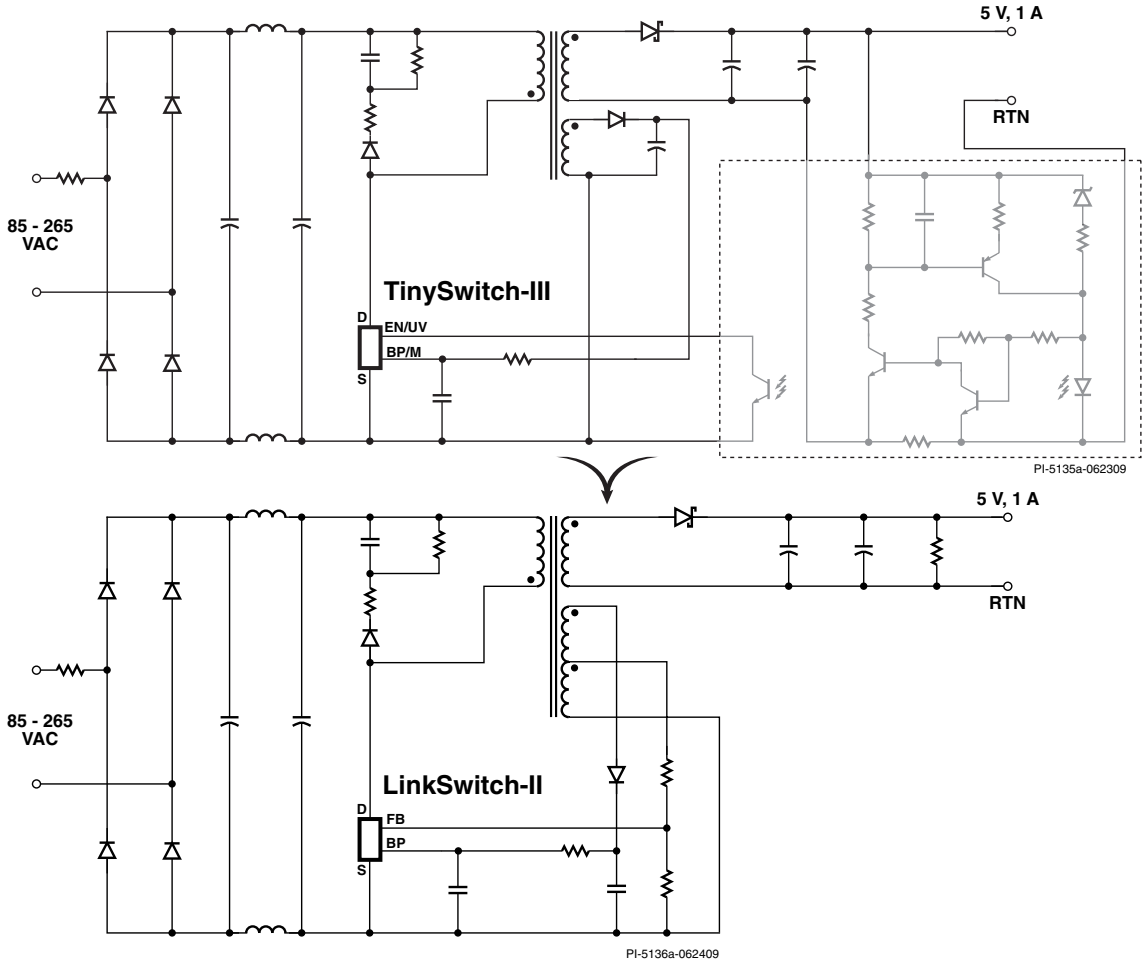
We combine a high-voltage MOSFET switch with a controller on a single chip to provide key power supply functions, such as:

- High-voltage start-up
- Short-circuit and open-loop protection
- Programmable current limit
- Line undervoltage and overvoltage protection
- Output overvoltage protection
- Accurate over-temperature and over-power protection
- Soft-start
- Feedback compensation
- Remote ON/OFF



Reducing Component Count

LinkSwitch-II dramatically simplifies low-power CV/CC charger designs by eliminating an optocoupler and secondary control circuitry. The device introduces a revolutionary control technique to provide very tight output voltage and current regulation, compensating for transformer and internal parameter tolerances along with input voltage variations.



EcoSmart Innovation

Energy-Efficient Reference Designs

Application	Reference Design	Output		P _{OUT} at 1 W Input (W)		P _{IN} at No-load (W)		Energy Star EPS v2.0	Meets 1 Watt Standby	Meets EU No-load Spec*	Meets Current EISA Spec**
		Power (W)	Voltage(s) (V)	115 V	230 V	115 V	230 V				
AC Adapter	EP-89	2	6.2	0.62	0.57	0.067	0.11		✓	✓	✓
AC Adapter	RD-201	6	5	0.732	0.709	0.056	0.079	✓	✓	✓	✓
AC Adapter	RD-242	30	12	0.65	0.63	0.062	0.075	✓	✓	✓	✓
AC Charger	EP-85	2	6.0	0.62	0.57	0.12	0.17		✓	✓	✓
AC Charger/Adapter	RD-157	2.78	5	0.73	0.72	0.028	0.032	✓	✓	✓	✓
AC Charger/Adapter	RD-158	5	5	0.73	0.720	0.042	0.046	✓	✓	✓	✓
AC Charger/Adapter	RD-159	2.4	8.0	0.75	0.72	0.023	0.028	✓	✓	✓	✓
AC-DC Power Supply	RD-91	12	12	0.75	0.65	0.085	0.14		✓	✓	✓
AC-DC Power Supply	EP-34	30	12	0.67	0.59	0.18	0.29		✓	✓	✓
Appliance/White Goods	EP-48	1.44	12	0.75	0.70	0.105	0.15	N/A	✓	N/A	N/A
Audio	RD-203	54 / 200 PK	12, ± 28	0.36	0.13	0.50	0.88	✓	✓	✓	N/A
Cordless Phone Adapter	RD-83	1.6	7.7	0.62	0.57	0.16	0.22		✓	✓	✓
DVD Player	EP-29	11	3.3, 5, ± 12	0.73	0.69	0.02	0.028	N/A	✓	N/A	N/A
DVD Player	RD-198	7 / 10 PK	5, 12, -22	0.61	0.605	0.13	0.135	N/A	✓	✓	N/A
DVD Player/Set-Top Box	EP-32	25	3.3, 5, 12, 24	0.66	0.63	0.065	0.078	N/A	✓	N/A	N/A
DVD Player/Set-Top Box	RD-115	7.5 / 13 PK	3.3, 5, ± 12	0.70	0.66	0.06	0.11	N/A	✓	✓	N/A
Inkjet Printer	EP-93	32 / 81 PK	30	0.72	0.69	0.10	0.16		✓	✓	✓
LCD Monitor/TV Adapter	EP-33	45	12	0.67	0.56	0.17	0.23		✓	✓	✓
LCD Monitor	RD-142	35	5, 12	0.41	0.40	0.15	0.20	N/A	✓	✓	N/A
LCD-TV	RD-189	225 / 286 PK	5, 12, 24	0.774	0.668	0.058	0.172	✓	✓	✓	N/A
LED Bulb	RD-131	3	10 TYP (9-15)	0.492	0.422	0.321	0.397	N/A	N/A	N/A	N/A
LED Bulb	RD-268	1.1	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LED Bulb	RD-257	12	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LED Bulb	RD-251	5	12-18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LED Bulb	RD-195	14	28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LED Bulb	RD-194	14	28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LED Bulb	RD-193	7	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Meters	RD-138	1.2	5, 12	0.54	0.52	0.125	0.160	N/A	✓	✓	N/A
Motor Drive	RD-128	36	12	0.748	0.682	0.125	0.28	N/A	✓	N/A	N/A
PC Main	RD-249	315	5, 12	N/A	N/A	0.078	0.138	✓	✓	✓	✓
PC Main	RD-248	180	380	N/A	N/A	0.213	0.234	N/A	N/A	N/A	N/A
PC Main	RD-236	347	380	N/A	N/A	0.0293	0.0946	N/A	N/A	N/A	N/A
CAPZero	RD-252	N/A	N/A	N/A	N/A	0.003	0.008	N/A	N/A	N/A	N/A

*Code of Conduct on Efficiency of External Power Supplies **Energy Independence and Security Act (federal equivalent of California Energy Commission/CEC) N/A = Not Applicable

An extensive list of tested, energy-efficient reference designs and circuit examples are available on-line at www.powerint.com/appcircuits.htm

PI Expert™ Design Software

This powerful, interactive software takes a designer's power supply specifications and automatically determines the critical components (including transformer specifications) needed to generate a working switch-mode power supply. Designs can be optimized for efficiency or cost using auto-design or manual control options. PI Expert simplifies the design of LED drivers, offline power supplies, and DC-DC converters, reducing design time from days to minutes.

To download PI Expert or request a CD, go to www.powerint.com/designsoftware.htm

Reference Designs

Reference Design Kits (RDks/DAKs) provide all of the essential materials needed to demonstrate the advanced features of Power Integrations' ICs. Kits include a fully assembled and tested reference design power supply board, engineering report, product samples, unpopulated PCB, data sheet and other related documentation.

For more information, go to www.powerint.com/dak.htm

PI Forums

Power Integrations provides several forums where designers can discuss technical questions with PI engineers and the extensive Power Integrations' design community:

- Power Supply Design Forum: For general technical questions
- PI Expert Support Forum: For discussing PI Expert Design Software
- Green Energy Forum: For discussing energy efficiency regulations, EcoSmart technology and improving the energy efficiency of electronic products

To participate in PI Forums, go to www.powerint.com/forum

Total Product Support

- Application notes
- Data sheets
- Design example reports
- Design ideas
- Engineering prototype reports

EcoSmart – Enabling Energy-Efficient Power Supply Design

Power Integrations' EcoSmart technology dramatically reduces standby and no-load energy waste (by up to 95% in some applications) by intelligently managing the flow of power into a device's power supply. Using innovative IC products from Power Integrations, manufacturers can offer energy-efficient products that meet all current and proposed standby energy consumption standards around the world.

The Green Room

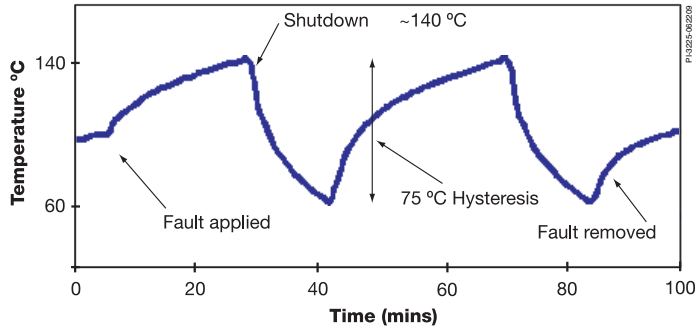
Power Integrations' Green Room web site (www.powerint.com/greenroom) offers the latest information in energy-efficient design, including:

- Energy-efficiency regulations: Search by application, regulatory agency or geographic location
- Application-specific design tools: Data sheets, application notes and reference designs
- Mr. Green's blog: An informative blog about energy-efficiency standards and other green matters
- Energy FAQs: Answers to frequently asked questions about energy efficiency
- Energy-efficiency resources: Links to other helpful web sites addressing energy issues
- Introduction to green power: Tips for minimizing standby waste

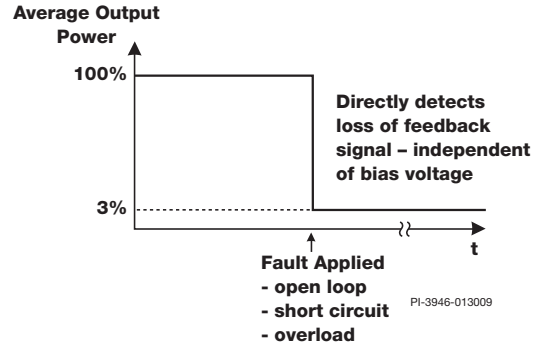
Product Features & Benefits

Comprehensive Fault Protection – Simplifies Design and Improves Reliability

- On-chip hysteretic thermal shutdown with auto-recovery
- Control loop fault protection is independent of bias voltage
- Protects entire system: device, PC board, magnetics and output rectifiers



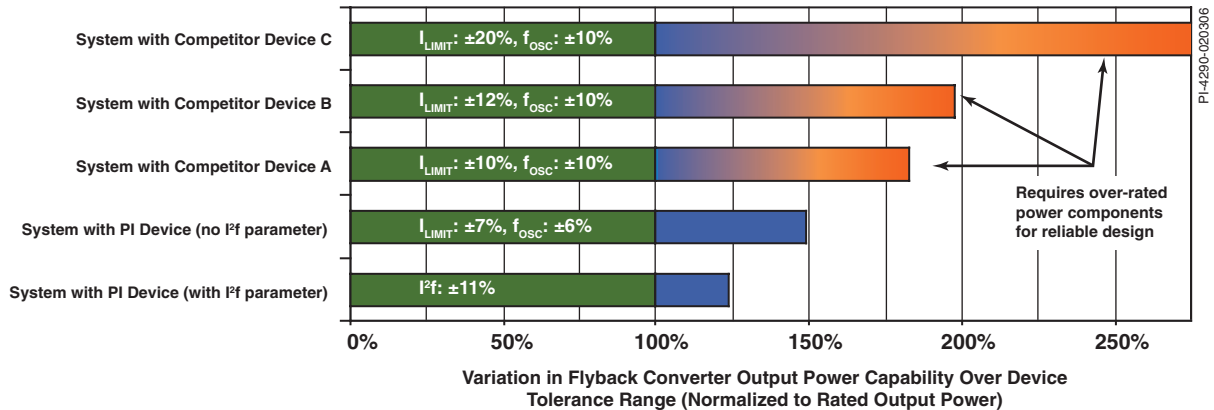
Hysteretic Thermal Shutdown



Output Power During Loss of Feedback

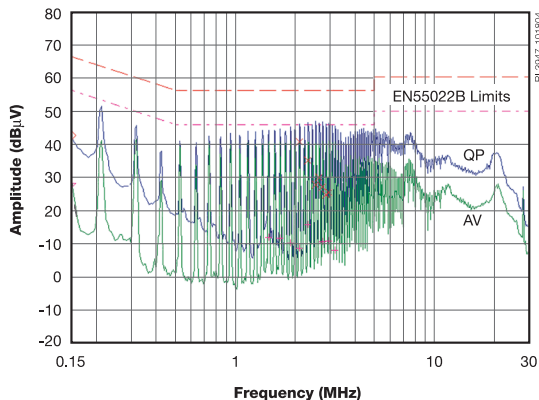
Tight Device Tolerances – Reduce System Cost

- Power Integrations’ ICs have tight tolerances for current limit and switching frequency. This reduces the output overload power and therefore the power rating, size and cost for the output rectifiers, transformer and clamp components.

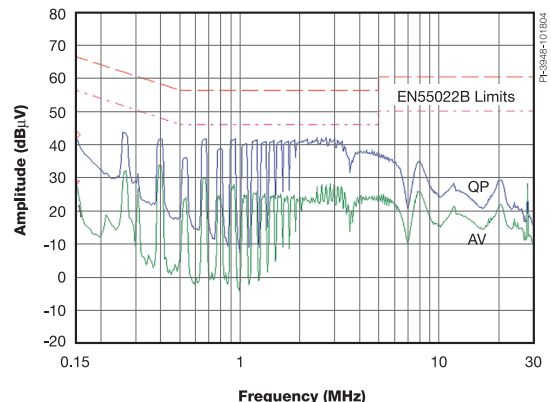


Frequency Jittering – Reduces EMI and EMI Filtering Costs

- Enables smaller, lower cost filter components



Conducted EMI without Jitter

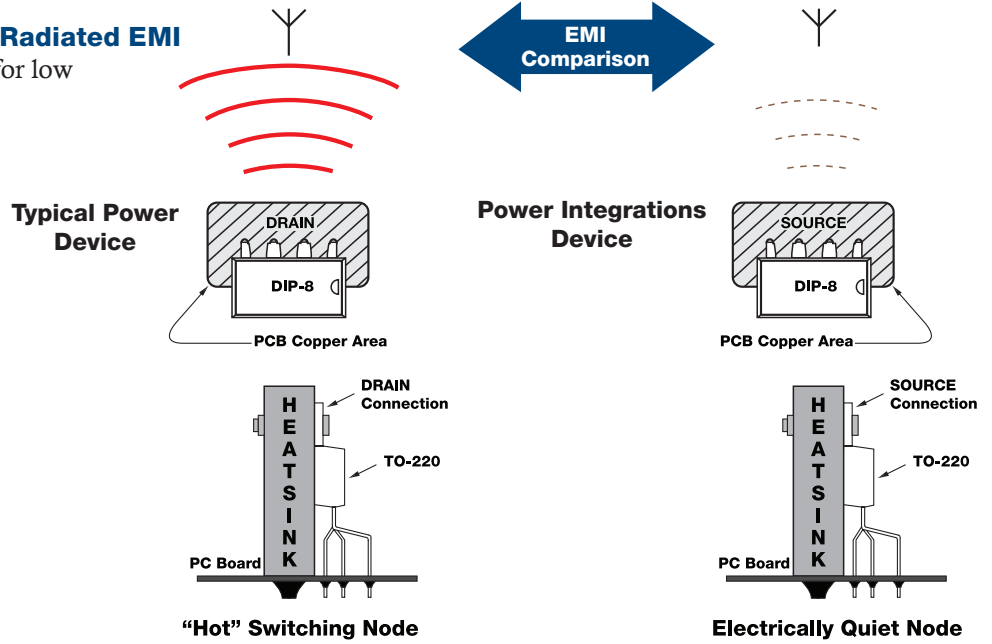


Conducted EMI with Jitter

Product Features & Benefits

Source Heat Sinking – For Low Radiated EMI

- Heat sink connected to SOURCE for low radiated EMI



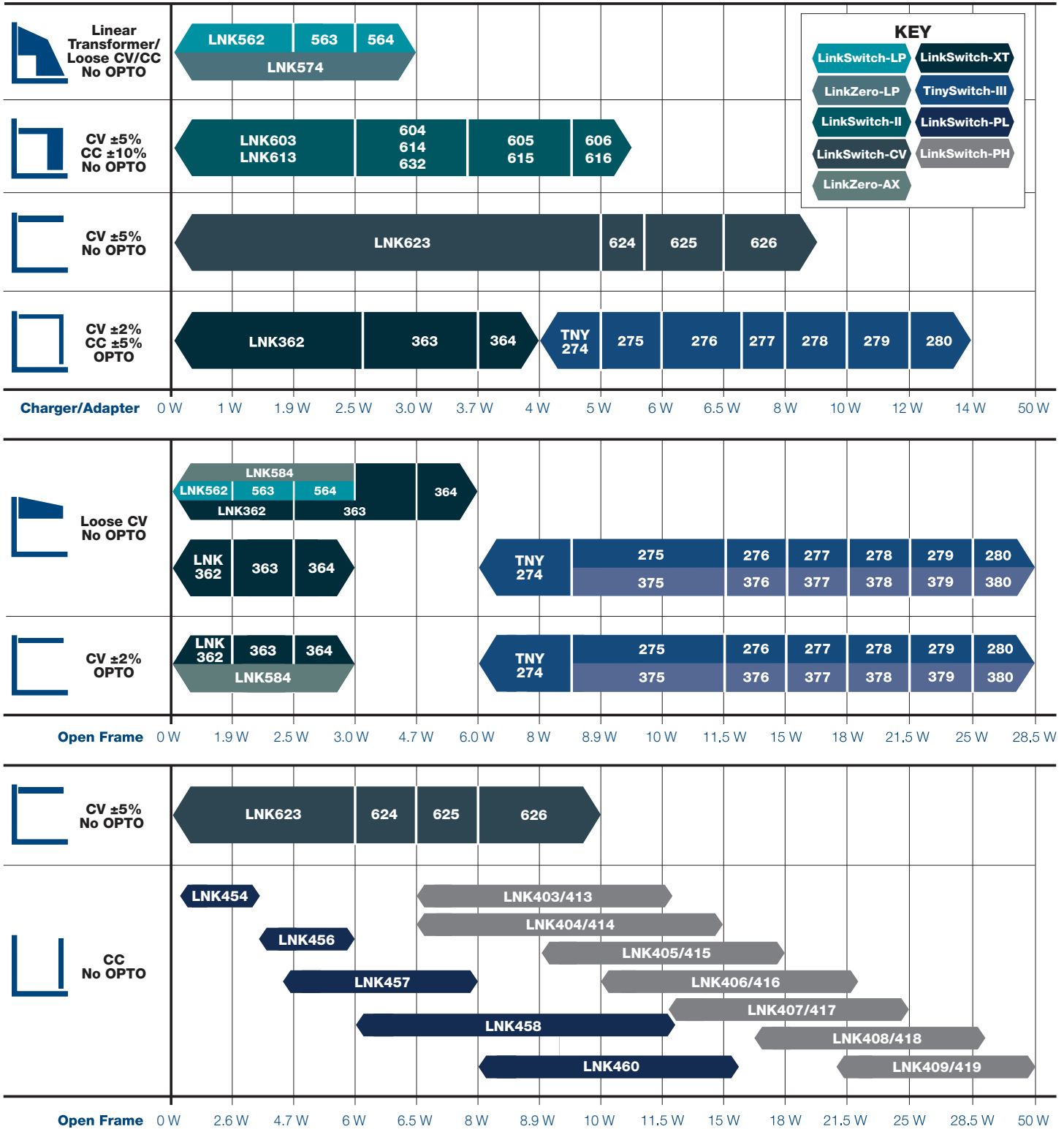
Package Design/Pin Layout – Improves Reliability

- Wide package DRAIN – SOURCE creepage reduces probability of arcing
- Important for high pollution degree environments and forced air cooling
- Optimal pin arrangement allows compliance with safety agency adjacent pin short-circuit test
- Packages below are RoHS compliant

D Package	G Package	M Package	P Package	F Package	Y Package	E Package	L Package	K Package	V Package
SO-8	SMD-8	SDIP-10C	PDIP-8	TO-262-7C	TO-220-7C	eSIP™-7C	eSIP™-7F	eSOP™-12	eDIP™-12
SO-8C	SMD-8B		PDIP-8B						
	SMD-8C		PDIP-8C						

Low-Power Product Portfolio

Output Characteristic Requirements (Wide Input 85 – 265 VAC)



LinkSwitch-PH – LinkSwitch-PH dramatically simplifies offline LED driver designs requiring flicker-free TRIAC dimming, high power factor, and high-efficiency. This highly integrated controller and power MOSFET introduces a novel control technique that provides active power factor correction, accurate constant current output and primary-side control, and eliminates external circuitry required for power factor correction, an optocoupler, and supporting secondary current control circuitry. LinkSwitch-PH is optimized for isolated designs, operates over a wide input voltage range and delivers output power up to 50 W.

LinkSwitch-PL – Designed for compact solid state lighting replacement lamps, LinkSwitch-PL enables very small and low cost TRIAC-dimmable, single-stage, power factor corrected, constant current offline LED drivers. LinkSwitch-PL is optimized for non-isolated systems, operates over a wide input voltage range and delivers output power up to 16 W. Its innovative control algorithm provides flicker-free TRIAC dimming with minimal external components.

LinkSwitch-CV – LinkSwitch-CV dramatically simplifies CV power supply design with tight CV requirements and by eliminating an optocoupler and secondary control circuitry. The device introduces a revolutionary control technique to provide very tight output voltage regulation, along with input voltage variations and temperature.

LinkSwitch-II – Designed for low power adapters and chargers (cell/cordless phones, PDAs, digital cameras, portable audio etc), LinkSwitch-II dramatically simplifies low power CV/CC charger designs by eliminating an optocoupler and secondary control circuitry. The device introduces a revolutionary control technique to provide very tight output voltage and current regulation, compensating for transformer and internal parameter tolerances along with input voltage variations.

LinkSwitch-XT – Designed for low power adapters and chargers (cell/cordless phones, PDAs, digital cameras, portable audio etc), as well as auxiliary supplies employed in applications such as white goods.

LinkSwitch-LP – Designed to replace inefficient line frequency linear transformer based power supplies with output powers <2.5 W in applications such as cell/cordless phones, PDAs, digital cameras, and portable audio players, as well as auxiliary supplies employed in applications such as white goods.

LinkSwitch-TN – Designed to replace all linear and capacitor-fed (cap dropper) non-isolated power supplies in the under 360 mA output current range at equal system cost while offering much higher performance and energy efficiency.

TinySwitch-III – TinySwitch-III incorporates a 700 V power MOSFET, oscillator, high-voltage switched current source, current limit (user selectable) and thermal shutdown circuitry. The controller consists of an oscillator, enable circuit (sense and logic), current limit state machine, 5.85 V regulator, BYPASS/ MULTI-FUNCTION pin undervoltage, overvoltage circuit, and current limit selection circuitry, over-temperature protection, current limit circuit, leading edge blanking, and a 700 V power MOSFET. TinySwitch-III incorporates additional circuitry for line undervoltage sense, auto-restart, adaptive switching cycle on-time extension, and frequency jitter.

TinySwitch-PK – Designed for applications with higher peak current requirements, TinySwitch-PK unique peak mode feature boosts current limit and frequency for peak load conditions. The boosted current limit provides the peak output power while the increased peak mode frequency ensures the transformer can be sized for continuous load conditions rather than peak power demands.

TOPSwitch-JX – The latest generation product in the TOPSwitch line, TOPSwitch-JX is a highly integrated family of power conversion ICs incorporating a 725 V power MOSFET for use in flyback power supplies. The novel TOPSwitch-JX multi-mode control algorithm maximizes power efficiency across the entire load range. High-efficiency at full power minimizes power wasted during normal operation and reduces the complexity and expense of thermal management on the system. At low power levels, high-efficiency enables adapters with extremely low no-load consumption and maximizes power available to the system in standby mode for applications constrained by standards and regulatory controls.

TOPSwitch-HX – TOPSwitch-HX features multi-mode operation with linear frequency reduction to 30 kHz (at 132 kHz) and multi-cycle modulation (assuring virtually no audible noise), Output Overvoltage Protection (OVP), improved line feed-forward with duty cycle reduction, and I²f trimming.

Power 85-265 VAC (rated) (W)	Peak Power 85-265 VAC (best) (W)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μ F, 10 μ F)	CC Accuracy (best) (%)	Typical No Load Power at 230 VAC (with bias winding) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
1.9	1.9	LNK562	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
2.5	2.5	LNK563	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
2.5	2.5	LNK603	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.2	ON/OFF	Y	CV Design / Shutdown
2.5	2.5	LNK613	P, D	PSR	± 5	1.035, 1.055	± 10	< 30	0.2	ON/OFF	Y	CV Design / Shutdown
2.6	2.6	LNK362	P, D	Opto	External	Remote Sense	External	< 10	0.14	ON/OFF	N	N
2.6	2.6	LNK362	G	Opto	External	Remote Sense	External	< 10	0.14	ON/OFF	N	N
3	3	LNK564	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
3	3	LNK574	D	PSR	± 15	Remote Sense	± 20	< 5	0.136	ON/OFF	N	N
3.1	3.1	LNK632	D	PSR	± 5	1.06, 1.09	± 18	< 30	0.145	ON/OFF	Y	CV Design / Shutdown
3.5	3.5	LNK604	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.25	ON/OFF	Y	CV Design / Shutdown
3.5	3.5	LNK614	P, D	PSR	± 5	1.045, 1.065	± 10	< 30	0.25	ON/OFF	Y	CV Design / Shutdown
3.7	3.7	LNK363	P, D	Opto	External	Remote Sense	External	< 10	0.21	ON/OFF	N	N
3.7	3.7	LNK363	G	Opto	External	Remote Sense	External	< 10	0.21	ON/OFF	N	N
4	4	LNK364	P, D	Opto	External	Remote Sense	External	< 10	0.25	ON/OFF	N	N
4	4	LNK364	G	Opto	External	Remote Sense	External	< 10	0.25	ON/OFF	N	N
4.5	4.5	LNK605	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.315	ON/OFF	Y	CV Design / Shutdown
4.5	4.5	LNK615	P, D	PSR	± 5	1.05, 1.07	± 10	< 30	0.315	ON/OFF	Y	CV Design / Shutdown
5	5	LNK623	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.21	ON/OFF	N	CV Design / Shutdown
5	8.5	TNY274	P, G	Opto	External	Remote Sense	External	< 50	0.25	ON/OFF	Y	Latch
5.5	5.5	LNK606	P, G, D	PSR	± 5	Remote Sense	± 10	< 30	0.41	ON/OFF	Y	CV Design / Shutdown
5.5	5.5	LNK616	P, G, D	PSR	± 5	1.06, 1.09	± 10	< 30	0.41	ON/OFF	Y	CV Design / Shutdown
5.5	5.5	LNK624	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.25	ON/OFF	N	CV Design / Shutdown
6	6	TOP252	E	Opto	External	Remote Sense	External	< 100	0.43	Multimode	Y	Latch / Auto Restart
6	11.5	TNY275	P, G	Opto	External	Remote Sense	External	< 50	0.275	ON/OFF	Y	Latch
6	12.5	TNY375	P, G, D	Opto	External	Remote Sense	External	< 50	0.355	ON/OFF	Y	Latch
6	13	TOP252	P, G, M	Opto	External	Remote Sense	External	< 100	0.43	Multimode	Y	Latch / Auto Restart
6.5	6.5	LNK625	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.33	ON/OFF	N	CV Design / Shutdown
7	15	TNY276	P, G	Opto	External	Remote Sense	External	< 50	0.35	ON/OFF	Y	Latch
7	17	TNY376	P, G, D	Opto	External	Remote Sense	External	< 50	0.455	ON/OFF	Y	Latch
8	8.5	LNK626	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.45	ON/OFF	N	CV Design / Shutdown
8	18	TNY277	P, G	Opto	External	Remote Sense	External	< 50	0.45	ON/OFF	Y	Latch
8	23	TNY377	P, G	Opto	External	Remote Sense	External	< 50	0.585	ON/OFF	Y	Latch
9	25	PKS603	P	Opto	External	Remote Sense	External	< 100	0.81	ON/OFF	Y	Latch / Auto Restart
9	25	TOP253	P, G	Opto	External	Remote Sense	External	< 100	0.75	Multimode	Y	Latch / Auto Restart
9	29	TOP253	M	Opto	External	Remote Sense	External	< 100	0.85	Multimode	Y	Latch / Auto Restart
10	21.5	TNY278	P, G	Opto	External	Remote Sense	External	< 50	0.55	ON/OFF	Y	Latch
10	27	TNY378	P, G	Opto	External	Remote Sense	External	< 50	0.715	ON/OFF	Y	Latch
11	30	TOP254	P, G	Opto	External	Remote Sense	External	< 100	1	Multimode	Y	Latch / Auto Restart
11	40	TOP254	M	Opto	External	Remote Sense	External	< 100	1.3	Multimode	Y	Latch / Auto Restart
12	20	TOP264	V	Opto	External	Remote Sense	External	< 75	1.3	Multimode	Y	Latch / Auto Restart
12	25	TNY279	P, G	Opto	External	Remote Sense	External	< 50	0.65	ON/OFF	Y	Latch
12	31	TNY379	P, G	Opto	External	Remote Sense	External	< 50	0.845	ON/OFF	Y	Latch
13	13	TOP253	E	Opto	External	Remote Sense	External	< 100	0.85	Multimode	Y	Latch / Auto Restart
13	35	TOP255	P, G	Opto	External	Remote Sense	External	< 100	1.15	Multimode	Y	Latch / Auto Restart
13	52	TOP255	M	Opto	External	Remote Sense	External	< 100	1.7	Multimode	Y	Latch / Auto Restart
14	28.5	TNY280	P, G	Opto	External	Remote Sense	External	< 50	0.75	ON/OFF	Y	Latch
14	35	TNY380	P, G	Opto	External	Remote Sense	External	< 50	0.975	ON/OFF	Y	Latch
15	26	TOP265	V	Opto	External	Remote Sense	External	< 75	1.7	Multimode	Y	Latch / Auto Restart
15	40	TOP256	P, G	Opto	External	Remote Sense	External	< 100	1.35	Multimode	Y	Latch / Auto Restart
15	64	TOP256	M	Opto	External	Remote Sense	External	< 100	2.1	Multimode	Y	Latch / Auto Restart

Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	I ² f Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
LNK562	Auto Restart	N	N	N	Inherent	N/A	Y	66		12	N	N
LNK563	Auto Restart	N	N	N	Inherent	N/A	Y	83		12	N	N
LNK603	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK613	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK362	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK362	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK564	Auto Restart	N	N	N	Inherent	N/A	Y	100		12	N	N
LNK574	Auto Restart	N	N	N	Inherent	N/A	Y	100		12	N	N
LNK632	Auto Restart	N	N	N	Inherent	N/A	Y	105		20	N	N
LNK604	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK614	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK363	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK363	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK364	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK364	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK605	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK615	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK623	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
TNY274	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
LNK606	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK616	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK624	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
TOP252	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TNY275	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY375	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP252	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
LNK625	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
TNY276	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY376	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
LNK626	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
TNY277	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY377	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
PKS603	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TNY278	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY378	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP264	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TNY279	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY379	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TNY280	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY380	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP265	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable

Power 85-265 VAC (rated) (W)	Peak Power 85-265 VAC (best) (W)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μF, 10 μF)	CC Accuracy (best) (%)	Typical No Load Power at 230 VAC (with bias winding) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
16	44	PKS604	P	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
17	40	TOP266	V	Opto	External	Remote Sense	External	< 75	2.55	Multimode	Y	Latch / Auto Restart
19	45	TOP257	P, G	Opto	External	Remote Sense	External	< 100	1.5	Multimode	Y	Latch / Auto Restart
19	78	TOP257	M	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
19	55	TOP267	V	Opto	External	Remote Sense	External	< 75	3	Multimode	Y	Latch / Auto Restart
20	20	TOP254	E, Y	Opto	External	Remote Sense	External	< 100	1.3	Multimode	Y	Latch / Auto Restart
20	20	TOP264	E	Opto	External	Remote Sense	External	< 75	1.3	Multimode	Y	Latch / Auto Restart
21	44	PKS605	P	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
21.5	70	TOP268	V	Opto	External	Remote Sense	External	< 75	3.25	Multimode	Y	Latch / Auto Restart
22	50	TOP258	P, G	Opto	External	Remote Sense	External	< 100	1.65	Multimode	Y	Latch / Auto Restart
22	92	TOP258	M	Opto	External	Remote Sense	External	< 100	3	Multimode	Y	Latch / Auto Restart
22.5	80	TOP269	V	Opto	External	Remote Sense	External	< 75	3.48	Multimode	Y	Latch / Auto Restart
23	44	PKS604	Y, F	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
24.5	93	TOP270	V	Opto	External	Remote Sense	External	< 75	4.2	Multimode	Y	Latch / Auto Restart
25	46	PKS606	P	Opto	External	Remote Sense	External	< 100	1.51	ON/OFF	Y	Latch / Auto Restart
26	26	TOP255	E, Y, L	Opto	External	Remote Sense	External	< 100	1.7	Multimode	Y	Latch / Auto Restart
26	26	TOP265	E	Opto	External	Remote Sense	External	< 75	1.7	Multimode	Y	Latch / Auto Restart
26	118	TOP271	V	Opto	External	Remote Sense	External	< 75	5.17	Multimode	Y	Latch / Auto Restart
30	58	PKS605	Y, F	Opto	External	Remote Sense	External	< 100	1.89	ON/OFF	Y	Latch / Auto Restart
40	40	TOP256	E, Y	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
40	40	TOP256	L	Opto	External	Remote Sense	External	< 100	2.1	Multimode	Y	Latch / Auto Restart
40	40	TOP266	E	Opto	External	Remote Sense	External	< 75	2.55	Multimode	Y	Latch / Auto Restart
45	86	PKS606	Y, F	Opto	External	Remote Sense	External	< 100	2.8	ON/OFF	Y	Latch / Auto Restart
50	93	PKS607	Y, F	Opto	External	Remote Sense	External	< 100	3	ON/OFF	Y	Latch / Auto Restart
55	55	TOP257	E, Y	Opto	External	Remote Sense	External	< 100	3.4	Multimode	Y	Latch / Auto Restart
55	55	TOP257	L	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
55	55	TOP267	E	Opto	External	Remote Sense	External	< 75	3	Multimode	Y	Latch / Auto Restart
70	70	TOP258	E, Y	Opto	External	Remote Sense	External	< 100	4.3	Multimode	Y	Latch / Auto Restart
70	70	TOP258	L	Opto	External	Remote Sense	External	< 100	3	Multimode	Y	Latch / Auto Restart
70	70	TOP268	E	Opto	External	Remote Sense	External	< 75	3.25	Multimode	Y	Latch / Auto Restart
80	80	TOP259	E, Y	Opto	External	Remote Sense	External	< 100	5.15	Multimode	Y	Latch / Auto Restart
80	80	TOP259	L	Opto	External	Remote Sense	External	< 100	3.48	Multimode	Y	Latch / Auto Restart
80	80	TOP269	E	Opto	External	Remote Sense	External	< 75	3.48	Multimode	Y	Latch / Auto Restart
93	93	TOP260	E, Y	Opto	External	Remote Sense	External	< 100	6	Multimode	Y	Latch / Auto Restart
93	93	TOP260	L	Opto	External	Remote Sense	External	< 100	4.2	Multimode	Y	Latch / Auto Restart
93	93	TOP270	E	Opto	External	Remote Sense	External	< 75	4.2	Multimode	Y	Latch / Auto Restart
118	118	TOP261	E, Y	Opto	External	Remote Sense	External	< 100	7.4	Multimode	Y	Latch / Auto Restart
118	118	TOP261	L	Opto	External	Remote Sense	External	< 100	5.17	Multimode	Y	Latch / Auto Restart
118	118	TOP262	E	Opto	External	Remote Sense	External	< 100	7.4	Multimode	Y	Latch / Auto Restart
118	118	TOP262	L	Opto	External	Remote Sense	External	< 100	5.17	Multimode	Y	Latch / Auto Restart
118	118	TOP271	E	Opto	External	Remote Sense	External	< 75	5.17	Multimode	Y	Latch / Auto Restart
Output Current, Discontinuous Mode (mA) (230 VAC)	Output Current, Discontinuous Mode (mA) (85-265 VAC)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μF, 10 μF)	CC Accuracy (best) (%)	Typical No Load Power at 230 VAC (buck topology) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
63	63	LNK302	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.136	ON/OFF	N	N
120	120	LNK304	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.257	ON/OFF	N	N
175	175	LNK305	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.375	ON/OFF	N	N
225	225	LNK306	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.482	ON/OFF	N	N

Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	I _{pf} Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
PKS604	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP266	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP267	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP264	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS605	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP268	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP269	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS604	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP270	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS606	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP265	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP271	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS605	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP266	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS606	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
PKS607	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP267	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP268	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP259	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP259	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP269	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP260	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP260	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP270	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP261	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP261	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP262	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP262	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP271	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	I _{pf} Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
LNK302	Auto Restart	N	N	N	Inherent	N/A	N	66		N/A	N	N
LNK304	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N
LNK305	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N
LNK306	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N

IC Product Tables – Open Frame

Open Frame Power 85-265 VAC (rated) (W)	Open Frame Peak Power 85-265 VAC (best) (W)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μF, 10 μF)	CC Accuracy (best) (%)	Typical No Load Power at 230 VAC (with bias winding) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
1.5	3	LNK454	D	PSR / Opto	N/A	N/A	± 10	N/A		PWM	N	Y
1.9	1.9	LNK562	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
2.5	2.5	LNK563	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
2.6	2.6	LNK362	P, D	Opto	External	Remote Sense	External	< 10	0.14	ON/OFF	N	N
2.6	2.6	LNK362	G	Opto	External	Remote Sense	External	< 10	0.14	ON/OFF	N	N
3	3	LNK564	P, D	PSR	± 15	Remote Sense	± 20	< 30	0.136	ON/OFF	N	N
3	3	LNK584	D, G	PSR	± 5	Remote Sense	± 20	< 3	0.136	ON/OFF	N	Y
3	6	LNK456	D	PSR / Opto	N/A	N/A	± 10	N/A		PWM	N	Y
3.1	3.1	LNK632	D	PSR	± 5	1.06, 1.09	± 18	< 30	0.145	ON/OFF	Y	CV Design / Shutdown
3.3	3.3	LNK603	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.2	ON/OFF	Y	CV Design / Shutdown
3.3	3.3	LNK613	P, D	PSR	± 5	1.035, 1.055	± 10	< 30	0.2	ON/OFF	Y	CV Design / Shutdown
4	8	LNK457	D, V	PSR / Opto	N/A	N/A	± 10	N/A		PWM	N	Y
4.1	4.1	LNK604	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.25	ON/OFF	Y	CV Design / Shutdown
4.1	4.1	LNK614	P, D	PSR	± 5	1.045, 1.065	± 10	< 30	0.25	ON/OFF	Y	CV Design / Shutdown
4.7	4.7	LNK363	P, D	Opto	External	Remote Sense	External	< 10	0.21	ON/OFF	N	N
4.7	4.7	LNK363	G	Opto	External	Remote Sense	External	< 10	0.21	ON/OFF	N	N
5.1	5.1	LNK605	P, D	PSR	± 5	Remote Sense	± 10	< 30	0.315	ON/OFF	Y	CV Design / Shutdown
5.1	5.1	LNK615	P, D	PSR	± 5	1.05, 1.07	± 10	< 30	0.315	ON/OFF	Y	CV design / Shutdown
6	6	LNK364	P, D	Opto	External	Remote Sense	External	< 10	0.25	ON/OFF	N	N
6	6	LNK364	G	Opto	External	Remote Sense	External	< 10	0.25	ON/OFF	N	N
6	6	LNK623	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.21	ON/OFF	N	CV Design / Shutdown
6	11.5	LNK458	V	PSR / Opto	N/A	N/A	± 10	N/A		PWM	N	Y
6.1	6.1	LNK606	P, G, D	PSR	± 5	Remote Sense	± 10	< 30	0.41	ON/OFF	Y	CV Design / Shutdown
6.1	6.1	LNK616	P, G, D	PSR	± 5	1.06, 1.09	± 10	< 30	0.41	ON/OFF	Y	CV Design / Shutdown
6.5	6.5	LNK624	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.25	ON/OFF	N	CV Design / Shutdown
6.5	12	LNK403	E	PSR	N/A	N/A	± 5	N/A	0.75	PWM	N	Y
6.5	12	LNK413	E	PSR	N/A	N/A	± 5	N/A	0.75	PWM	N	Y
6.5	15	LNK404	E	PSR	N/A	N/A	± 5	N/A	1.00	PWM	N	Y
6.5	15	LNK414	E	PSR	N/A	N/A	± 5	N/A	1.00	PWM	N	Y
8	8	LNK625	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.33	ON/OFF	N	CV Design / Shutdown
8	16	LNK460	V	PSR / Opto	N/A	N/A	± 10	N/A		PWM	N	Y
8.5	8.5	TNY274	P, G	Opto	External	Remote Sense	External	< 50	0.25	ON/OFF	Y	Latch
8.5	18	LNK405	E	PSR	N/A	N/A	± 5	N/A	1.24	PWM	N	Y
8.5	18	LNK415	E	PSR	N/A	N/A	± 5	N/A	1.24	PWM	N	Y
9	25	PKS603	P	Opto	External	Remote Sense	External	< 100	0.81	ON/OFF	Y	Latch / Auto Restart
10	10	LNK626	P, D	PSR	± 5	Remote Sense	N/A	< 70	0.45	ON/OFF	N	CV design / Shutdown
10	13	TOP252	P, G, M	Opto	External	Remote Sense	External	< 100	0.43	Multimode	Y	Latch / Auto Restart
10	22	LNK406	E	PSR	N/A	N/A	± 5	N/A	1.48	PWM	N	Y
10	22	LNK416	E	PSR	N/A	N/A	± 5	N/A	1.48	PWM	N	Y
11.5	11.5	TNY275	P, G	Opto	External	Remote Sense	External	< 50	0.275	ON/OFF	Y	Latch
11.5	12.5	TNY375	P, G, D	Opto	External	Remote Sense	External	< 50	0.355	ON/OFF	Y	Latch
12	25	LNK407	E	PSR	N/A	N/A	± 5	N/A	1.76	PWM	N	Y
12	25	LNK417	E	PSR	N/A	N/A	± 5	N/A	1.76	PWM	N	Y
13	13	TOP252	E	Opto	External	Remote Sense	External	< 100	0.43	Multimode	Y	Latch / Auto Restart
15	15	TNY276	P, G	Opto	External	Remote Sense	External	< 50	0.35	ON/OFF	Y	Latch
15	17	TNY376	P, G, D	Opto	External	Remote Sense	External	< 50	0.455	ON/OFF	Y	Latch
15	25	TOP253	P, G	Opto	External	Remote Sense	External	< 100	0.75	Multimode	Y	Latch / Auto Restart
15	29	TOP253	M	Opto	External	Remote Sense	External	< 100	0.85	Multimode	Y	Latch / Auto Restart
16	35	LNK408	E	PSR	N/A	N/A	± 5	N/A	2.37	PWM	N	Y

IC Product Tables – Open Frame

Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	I _f Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
LNK454	Auto-Restart	N	Y	N	Inherent	N/A	N	28-132	N/A	N/A	N/A	N
LNK562	Auto Restart	N	N	N	Inherent	N/A	Y	66		12	N	N
LNK563	Auto Restart	N	N	N	Inherent	N/A	Y	83		12	N	N
LNK362	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK362	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK564	Auto Restart	N	N	N	Inherent	N/A	Y	100		12	N	N
LNK584	Auto Restart	N	N	N	Inherent	N/A	Y	100		12	N	N
LNK456	Auto Restart	N	Y	N	Inherent	N/A	N	28-132	N/A	N/A	N/A	N
LNK632	Auto Restart	N	N	N	Inherent	N/A	Y	105		20	N	N
LNK603	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK613	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK457	Auto Restart	N	Y	N	Inherent	N/A	N	28-132	N/A	N/A	N/A	N
LNK604	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK614	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK363	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK363	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK605	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK615	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK364	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK364	Auto Restart	N	N	N	Inherent	N/A	Y	132		5	N	N
LNK623	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
LNK458	Auto Restart	N	Y	N	Inherent	N/A	N	28-132	N/A	N/A	N/A	N
LNK606	Auto Restart	N	N	N	Inherent	N/A	N	66		27	N	N
LNK616	Auto Restart	N	N	N	Inherent	N/A	N	65		27	N	N
LNK624	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
LNK403	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK413	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK404	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK414	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK625	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
LNK460	Auto Restart	N	Y	N	Inherent	N/A	N	66	N/A	N/A	N/A	N
TNY274	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
LNK405	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK415	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
PKS603	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
LNK626	Auto Restart	N	N	N	Inherent	N/A	Y	100		7	N	N
TOP252	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
LNK406	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK416	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
TNY275	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY375	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
LNK407	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK417	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
TOP252	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TNY276	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY376	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
LNK408	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N

IC Product Tables – Open Frame

IC Product Tables – Open Frame

Open Frame Power 85-265 VAC (rated) (W)	Open Frame Peak Power 85-265 VAC (best) (W)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μ F, 10 μ F)	CC Accuracy (best)	Typical No Load Power at 230 VAC (with bias winding) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
16	35	LNK418	E	PSR	N/A	N/A	± 5	N/A	2.37	PWM	N	Y
16	44	PKS604	P	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
18	18	TNY277	P, G	Opto	External	Remote Sense	External	< 50	0.45	ON/OFF	Y	Latch
18	23	TNY377	P, G	Opto	External	Remote Sense	External	< 50	0.585	ON/OFF	Y	Latch
18	50	LNK409	E	PSR	N/A	N/A	± 5	N/A	3.12	PWM	N	Y
18	50	LNK419	E	PSR	N/A	N/A	± 5	N/A	3.12	PWM	N	Y
20	30	TOP254	P, G	Opto	External	Remote Sense	External	< 100	1	Multimode	Y	Latch / Auto Restart
20	40	TOP254	M	Opto	External	Remote Sense	External	< 100	1.3	Multimode	Y	Latch / Auto Restart
21	44	PKS605	P	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
21.5	21.5	TNY278	P, G	Opto	External	Remote Sense	External	< 50	0.55	ON/OFF	Y	Latch
21.5	27	TNY378	P, G	Opto	External	Remote Sense	External	< 50	0.715	ON/OFF	Y	Latch
22	35	TOP255	P, G	Opto	External	Remote Sense	External	< 100	1.15	Multimode	Y	Latch / Auto Restart
22	52	TOP255	M	Opto	External	Remote Sense	External	< 100	1.7	Multimode	Y	Latch / Auto Restart
22.5	43	TOP264	V	Opto	External	Remote Sense	External	< 75	1.3	Multimode	Y	Latch / Auto Restart
23	44	PKS604	Y, F	Opto	External	Remote Sense	External	< 100	1.45	ON/OFF	Y	Latch / Auto Restart
25	25	TNY279	P, G	Opto	External	Remote Sense	External	< 50	0.65	ON/OFF	Y	Latch
25	31	TNY379	P, G	Opto	External	Remote Sense	External	< 50	0.845	ON/OFF	Y	Latch
25	46	PKS606	P	Opto	External	Remote Sense	External	< 100	1.51	ON/OFF	Y	Latch / Auto Restart
25	57	TOP265	V	Opto	External	Remote Sense	External	< 75	1.3	Multimode	Y	Latch / Auto Restart
26	40	TOP256	P, G	Opto	External	Remote Sense	External	< 100	1.35	Multimode	Y	Latch / Auto Restart
26	64	TOP256	M	Opto	External	Remote Sense	External	< 100	2.1	Multimode	Y	Latch / Auto Restart
28.5	28.5	TNY280	P, G	Opto	External	Remote Sense	External	< 50	0.75	ON/OFF	Y	Latch
28.5	35	TNY380	P, G	Opto	External	Remote Sense	External	< 50	0.975	ON/OFF	Y	Latch
28.5	86	TOP266	V	Opto	External	Remote Sense	External	< 75	2.55	Multimode	Y	Latch / Auto Restart
29	29	TOP253	E	Opto	External	Remote Sense	External	< 100	0.85	Multimode	Y	Latch / Auto Restart
30	45	TOP257	P, G	Opto	External	Remote Sense	External	< 100	1.5	Multimode	Y	Latch / Auto Restart
30	78	TOP257	M	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
30	58	PKS605	Y, F	Opto	External	Remote Sense	External	< 100	1.89	ON/OFF	Y	Latch / Auto Restart
32	103	TOP267	V	Opto	External	Remote Sense	External	< 75	3	Multimode	Y	Latch / Auto Restart
35	50	TOP258	P, G	Opto	External	Remote Sense	External	< 100	1.65	Multimode	Y	Latch / Auto Restart
35	92	TOP258	M	Opto	External	Remote Sense	External	< 100	3	Multimode	Y	Latch / Auto Restart
36	112	TOP268	V	Opto	External	Remote Sense	External	< 75	3.25	Multimode	Y	Latch / Auto Restart
37.5	120	TOP269	V	Opto	External	Remote Sense	External	< 75	3.48	Multimode	Y	Latch / Auto Restart
41	140	TOP270	V	Opto	External	Remote Sense	External	< 75	4.2	Multimode	Y	Latch / Auto Restart
43	43	TOP254	E, Y	Opto	External	Remote Sense	External	< 100	1.3	Multimode	Y	Latch / Auto Restart
43	43	TOP264	E	Opto	External	Remote Sense	External	< 75	1.3	Multimode	Y	Latch / Auto Restart
43	177	TOP271	V	Opto	External	Remote Sense	External	< 75	5.17	Multimode	Y	Latch / Auto Restart
45	86	PKS606	Y, F	Opto	External	Remote Sense	External	< 100	2.8	ON/OFF	Y	Latch / Auto Restart
50	93	PKS607	Y, F	Opto	External	Remote Sense	External	< 100	3	ON/OFF	Y	Latch / Auto Restart
57	57	TOP255	E, Y, L	Opto	External	Remote Sense	External	< 100	1.7	Multimode	Y	Latch / Auto Restart
57	57	TOP265	E	Opto	External	Remote Sense	External	< 75	1.7	Multimode	Y	Latch / Auto Restart
64	64	TOP256	L	Opto	External	Remote Sense	External	< 100	2.1	Multimode	Y	Latch / Auto Restart
78	78	TOP257	L	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
86	86	TOP256	E, Y	Opto	External	Remote Sense	External	< 100	2.55	Multimode	Y	Latch / Auto Restart
86	86	TOP266	E	Opto	External	Remote Sense	External	< 75	2.55	Multimode	Y	Latch / Auto Restart
92	92	TOP258	L	Opto	External	Remote Sense	External	< 100	3	Multimode	Y	Latch / Auto Restart
103	103	TOP267	E	Opto	External	Remote Sense	External	< 75	3	Multimode	Y	Latch / Auto Restart
112	112	TOP268	E	Opto	External	Remote Sense	External	< 75	3.25	Multimode	Y	Latch / Auto Restart
119	119	TOP257	E, Y	Opto	External	Remote Sense	External	< 100	3.4	Multimode	Y	Latch / Auto Restart

Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	I ² f Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
LNK418	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
PKS604	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TNY277	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY377	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
LNK409	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
LNK419	Auto Restart	N	Y	Y	Inherent	N/A	N	66	N/A	N/A	N/A	N
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
PKS605	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TNY278	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY378	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP264	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS604	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TNY279	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY379	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
PKS606	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP265	Auto Restart	Y	V	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TNY280	Auto Restart	Y	Y	N	Inherent	N/A	Y	132	Y	3	N	Y
TNY380	Auto Restart	Y	Y	N	Inherent	N/A	Y	132/264	Y	3	N	Y
TOP266	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP253	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
PKS605	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP267	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66	N	2	External	Programmable
TOP268	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP269	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP270	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP254	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP264	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP271	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
PKS606	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
PKS607	Latch / Auto Restart	N	Y	N	Inherent	N/A	Y	277		0.6	External	Y
TOP255	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP265	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP256	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP266	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP267	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP268	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP257	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable

IC Product Tables – Open Frame

Open Frame Power 85-265 VAC (rated) (W)	Open Frame Peak Power 85-265 VAC (best) (W)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μ F, 10 μ F)	CC Accuracy (best)	Typical No Load Power at 230 VAC (with bias winding) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
120	120	TOP259	L	Opto	External	Remote Sense	External	< 100	3.48	Multimode	Y	Latch / Auto Restart
120	120	TOP269	E	Opto	External	Remote Sense	External	< 75	3.48	Multimode	Y	Latch / Auto Restart
140	140	TOP260	L	Opto	External	Remote Sense	External	< 100	4.2	Multimode	Y	Latch / Auto Restart
140	140	TOP270	E	Opto	External	Remote Sense	External	< 75	4.2	Multimode	Y	Latch / Auto Restart
148	148	TOP258	E, Y	Opto	External	Remote Sense	External	< 100	4.3	Multimode	Y	Latch / Auto Restart
171	171	TOP259	E, Y	Opto	External	Remote Sense	External	< 100	5.15	Multimode	Y	Latch / Auto Restart
177	177	TOP261	L	Opto	External	Remote Sense	External	< 100	5.17	Multimode	Y	Latch / Auto Restart
177	177	TOP262	L	Opto	External	Remote Sense	External	< 100	5.17	Multimode	Y	Latch / Auto Restart
177	177	TOP271	E	Opto	External	Remote Sense	External	< 75	5.17	Multimode	Y	Latch / Auto Restart
200	200	TOP260	E, Y	Opto	External	Remote Sense	External	< 100	6	Multimode	Y	Latch / Auto Restart
254	254	TOP261	E, Y	Opto	External	Remote Sense	External	< 100	7.4	Multimode	Y	Latch / Auto Restart
254	254	TOP262	E	Opto	External	Remote Sense	External	< 100	7.4	Multimode	Y	Latch / Auto Restart
Output Current, Continuous Mode (mA) (230 VAC)	Output Current, Continuous Mode (mA) (85-265 VAC)	Device	Package	PSR/ Opto	CV Accuracy (best) (%)	Cable-Drop Compensation (1 μ F, 10 μ F)	CC Accuracy (best)	Typical No Load Power at 230 VAC (buck topology) (mW)	Typical Current Limit (A)	ON/OFF, PWM, Multimode	Output Power Limiting	Output OVP
80	80	LNK302	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.136	ON/OFF	N	N
170	170	LNK304	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.257	ON/OFF	N	N
280	280	LNK305	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.375	ON/OFF	N	N
360	360	LNK306	D, P, G	PSR/Opto	External	Remote Sense	External	< 80	0.482	ON/OFF	N	N

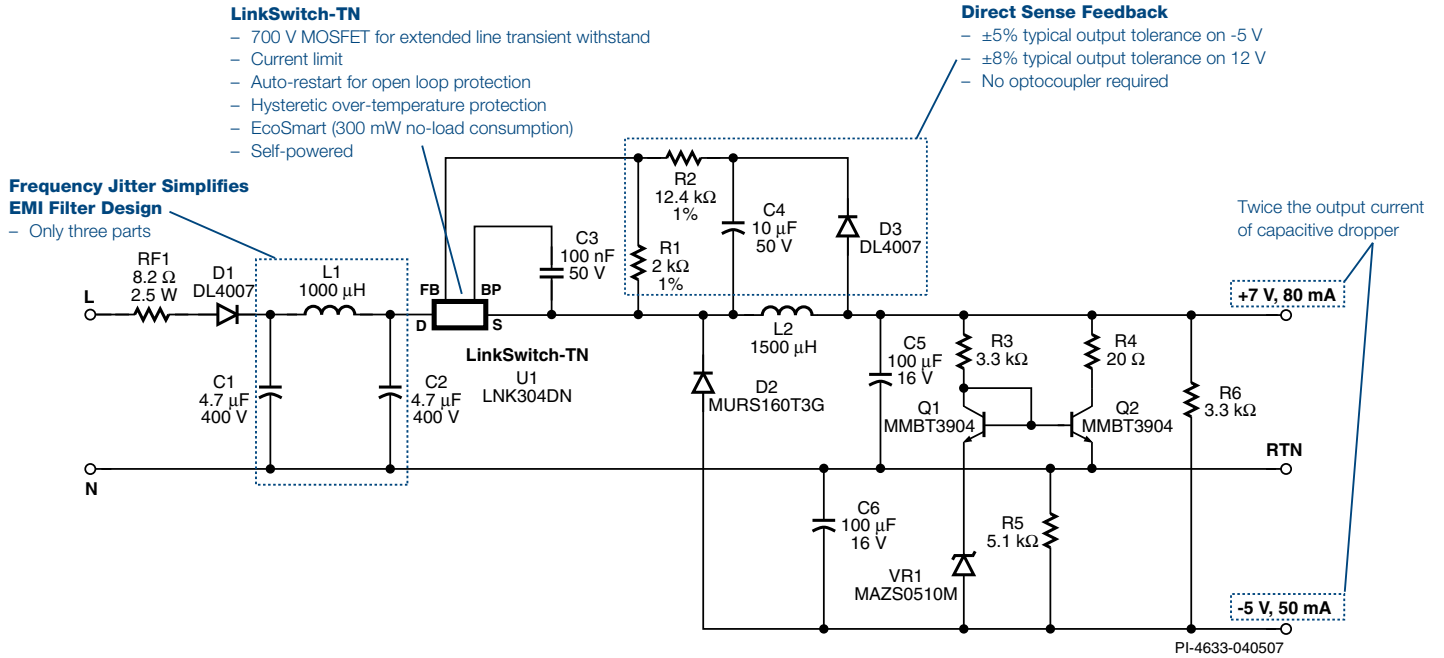
IC Product Tables – Open Frame

Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	Pf Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
TOP259	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP269	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP260	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP270	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP258	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP259	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP261	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP262	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP271	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	Y	2	Y	Y
TOP260	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP261	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
TOP262	Auto Restart	Y	Y	Y	Dual Slope	17	Y	66/132	N	2	External	Programmable
Device	Output Short-Circuit Protection	Programmable Current Limit	Line UV	Line OV	Line Ripple Rejection	Soft Start (ms)	Pf Trimming	Nominal Switching Frequency (kHz)	On-Time Extension	Peak Power Delivered During Short Circuit (%)	Fast AC Reset	Integrated Latching Shutdown
LNK302	Auto Restart	N	N	N	Inherent	N/A	N	66		N/A	N	N
LNK304	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N
LNK305	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N
LNK306	Auto Restart	N	N	N	Inherent	N/A	N	66		6	N	N

Design Examples

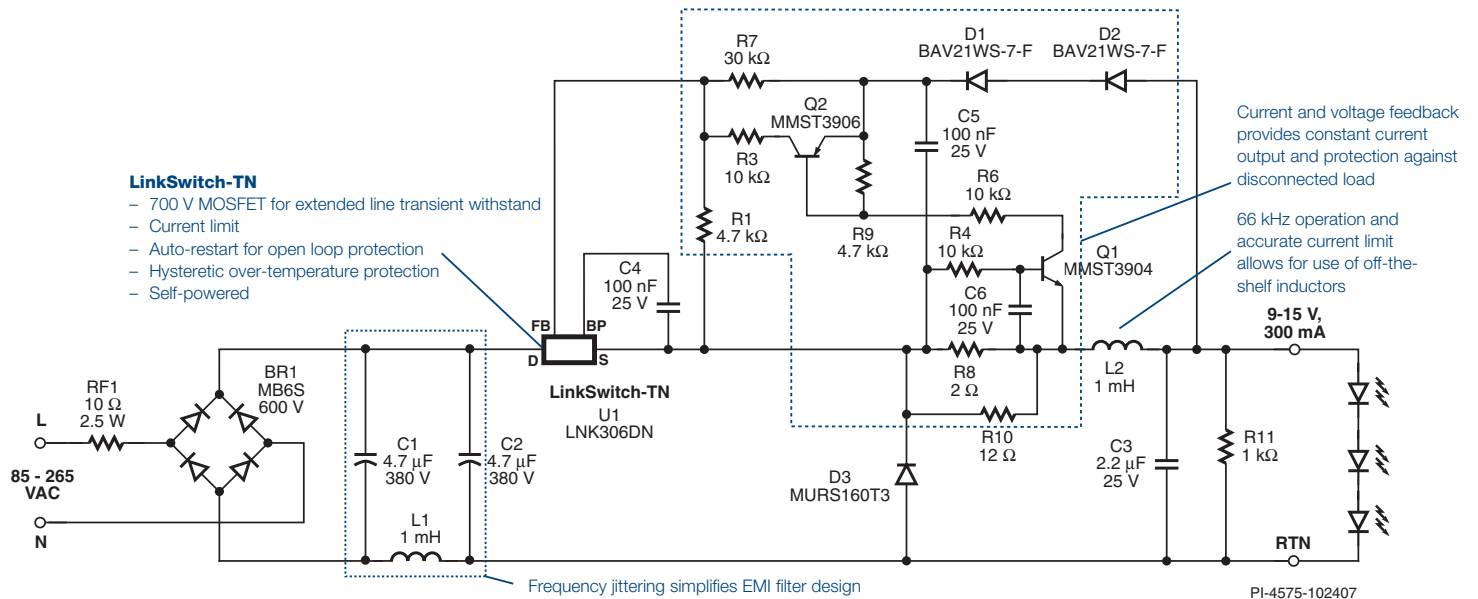
Design Example 1: LinkSwitch-TN – Cap Dropper Replacement for Appliance Control

1.2 W, UNIVERSAL INPUT NON-ISOLATED POWER SUPPLY

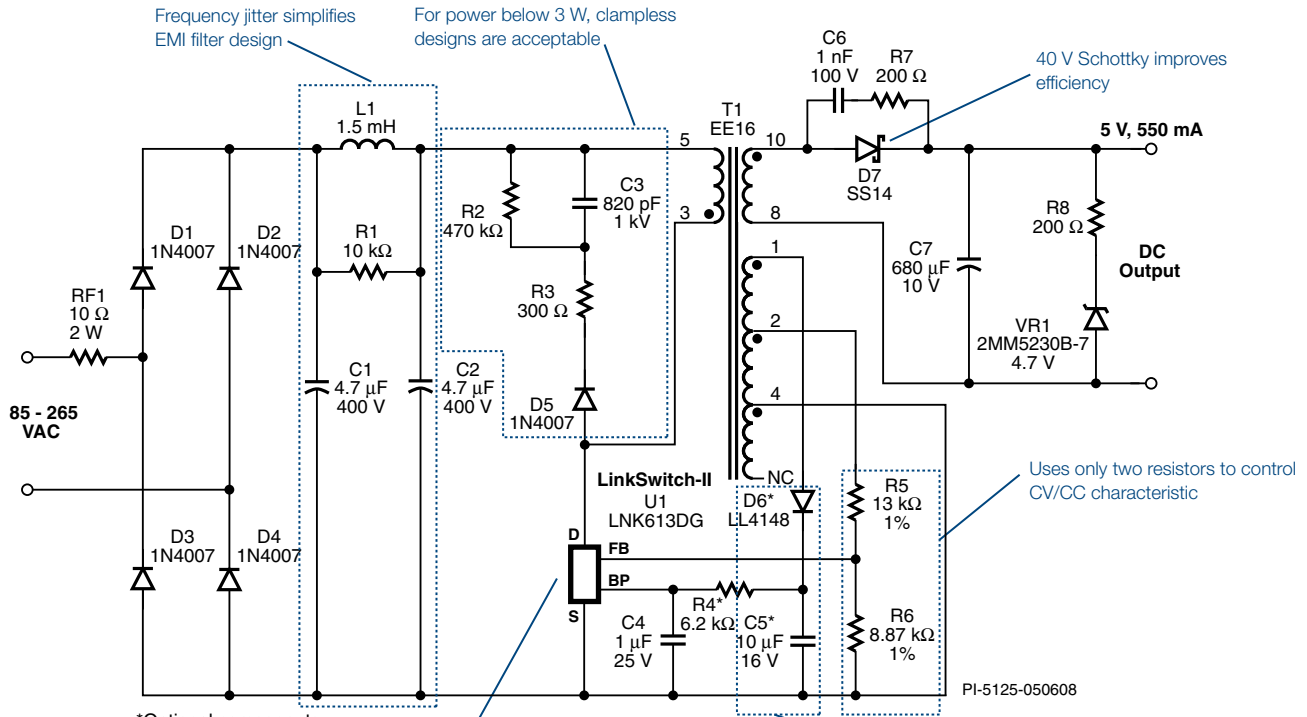


Design Example 2: LinkSwitch-TN LED Light Bulb

3 W, UNIVERSAL INPUT POWER SUPPLY



Design Example 3: LinkSwitch-II – Low Parts Count Solution for Tight CV/CC Output (CV 5%, CC 10%) 2.75 W, UNIVERSAL INPUT POWER SUPPLY



LinkSwitch-II:

- 700 V MOSFET for extended line transient immunity
- Primary side control, tight CC/CV
- Auto restart open loop protection
- Hysteretic over-temperature
- Self powered

Optional to reduce no-load consumption <30 mW

Design Examples

Design Example 4: LinkSwitch-LP – Replacement for Unregulated Linear Transformer

2 W, UNIVERSAL INPUT POWER SUPPLY

Built-in Frequency Jitter Simplifies Input Stage

- Simple inductor and capacitor EMI filter
- Allows inductor to be used as a fuse (Filterfuse™)

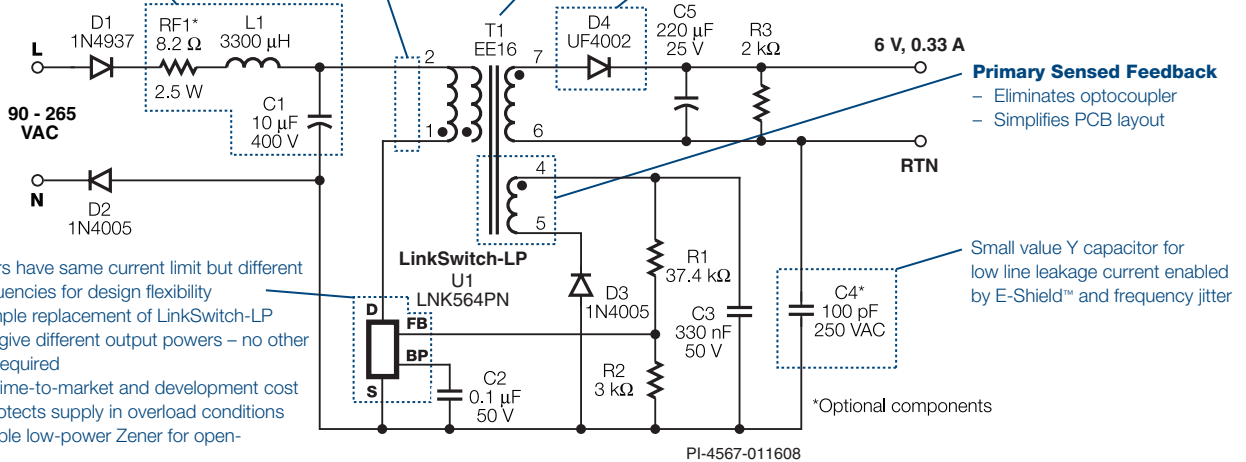
Optimized current limit and tight tolerances enable Clampless™ design

Optimized switching frequency enables low cost core size

Tight parametric tolerances and auto-restart minimize diode size

LinkSwitch-LP

- Family members have same current limit but different switching frequencies for design flexibility
 - Allows simple replacement of LinkSwitch-LP device to give different output powers – no other changes required
 - Reduces time-to-market and development cost
- Auto-restart protects supply in overload conditions and allows simple low-power Zener for open-loop protection
- Combined ON/OFF and variable frequency control provides CV/CC output characteristic without secondary sensing



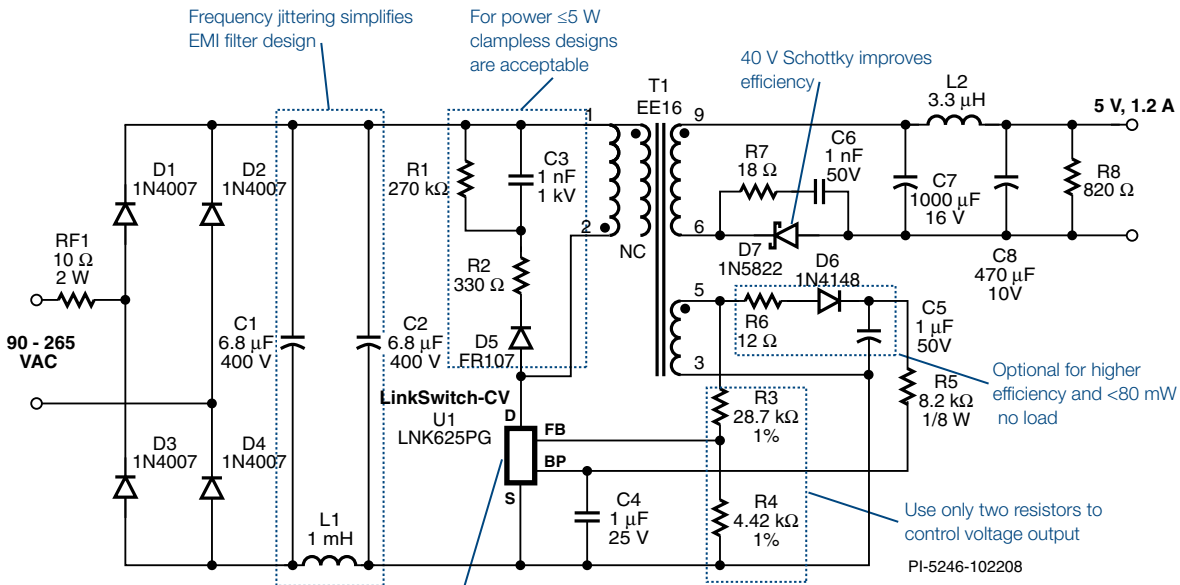
Design Example 5: LinkSwitch-CV – Low Parts Switcher with Accurate Output

6 W, UNIVERSAL INPUT POWER SUPPLY

Frequency jittering simplifies EMI filter design

For power ≤ 5 W clampless designs are acceptable

40 V Schottky improves efficiency

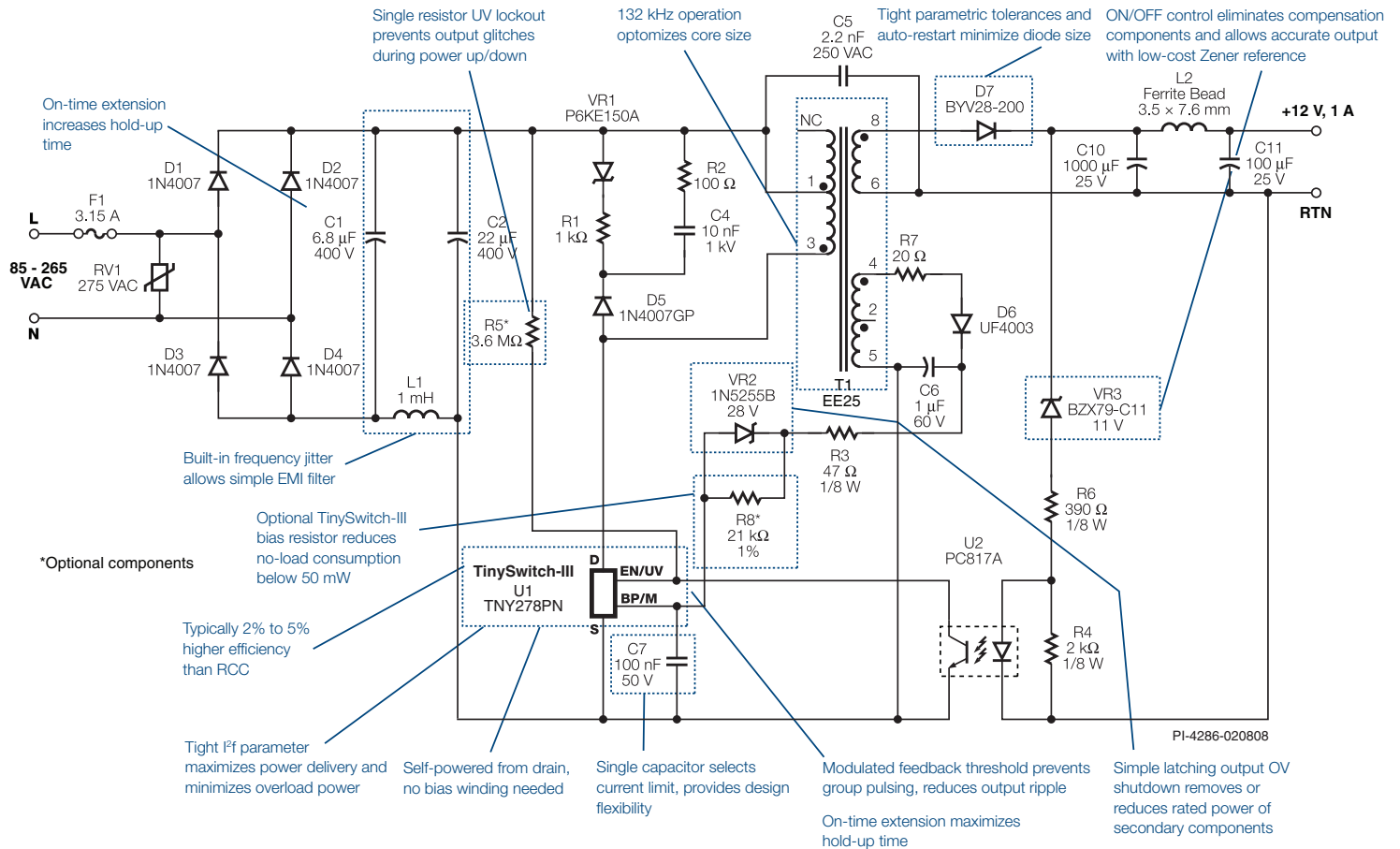


LinkSwitch-CV

- 700 V MOSFET for extended line transient immunity
- Primary side control 5% CV
- Auto restart open-loop protection
- Hysteretic over-temperature
- Self power

Design Example 6: TinySwitch-III vs. Discrete Design

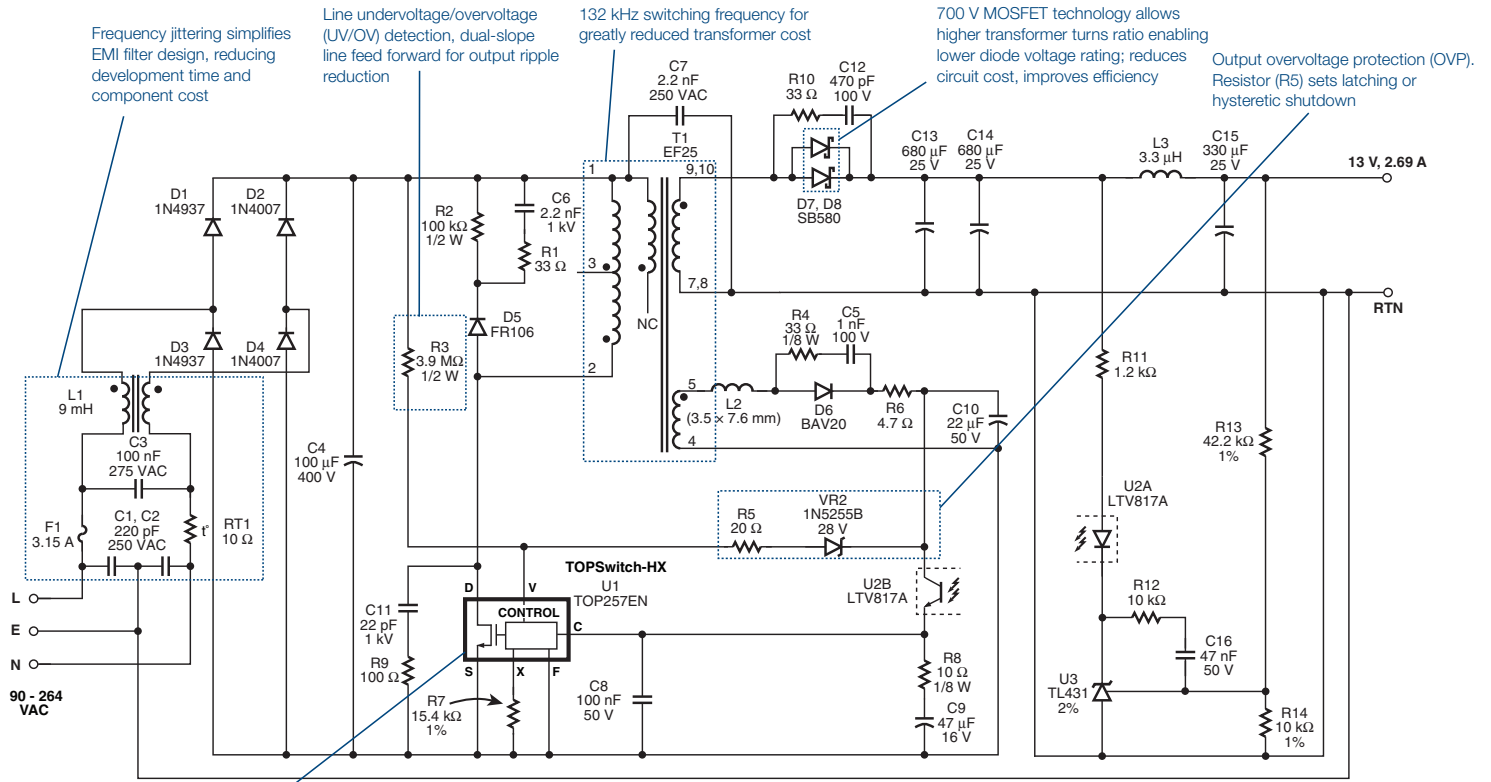
12 W, UNIVERSAL INPUT POWER SUPPLY



Design Examples

Design Example 7: TOPSwitch-HX for LCD Monitor Applications

35 W UNIVERSAL INPUT POWER SUPPLY



TOPSwitch-HX

- Accurate thermal shutdown with large hysteresis provides complete system-level protection
- Tight I_f tolerance minimizes the size of the transformer and output diodes and reduces overload to rated power ratio
- Internal high-voltage current source eliminates start-up circuitry
- Internal current sense circuit eliminates sense resistor
- DIP-8 package with 2 Ω MOSFET and optimized pinout eliminates heatsink
- Auto restart limits available power to <3% of maximum power in short-circuit and open-loop fault conditions

PI-5156-060508

Reference Designs

Design Example Report (DER)

Design Example Reports contain a power supply design specification, schematic, bill of materials, transformer documentation, and PCB layout. This design has been built and bench-tested to provide performance data and typical operation characteristics.

DER

Design Idea (DI)

Design Ideas are concise two-page documents describing a design for a specific application. Key design points are highlighted.

DI

Reference Design Report (RDR/EPR)

Reference Design Reports contain a power supply reference design specification, schematic, bill of materials, transformer documentation, and PCB layout. Performance data and typical operating characteristics are included. The design has been put into production for use in our Reference Designs (RDKs/DAKs).

RDR/
EPR

Application	Product Family	AC Input Voltage (V)	Output Voltage (V)	Output Power (W)	Topology	Documents	DAK/RDK
Appliance	LinkZero-AX	85-265	5	1.5	Flyback	DER-260	
	LinkSwitch-TN	85-265	12	1.32	Buck	DER-231	
	LinkSwitch-TN	100-132	5 / 12	2.37	Buck	DER-226	
	TOPSwitch-HX	85-265	8 / 12 / 40	22 (48.6 PK)	Flyback	DER-217	
	LinkSwitch-XT	185-265	7 / -5	2.7 (4.15 PK)	Flyback	DI-179	
	TinySwitch-III	165-265	9	9	Flyback	DI-177	
	TinySwitch-III	200-400	12 / 15	20	Flyback	DI-176	
	LinkSwitch-LP	90-265	2	3	Flyback	DI-154	
	TOPSwitch-HX	185-265	24	50 (70 PK)	Flyback	DI-144	
	LinkSwitch-TN	85-265	7 / -5	1.2	Buck	DI-138	
	LinkSwitch-XT	85-265	5 (0.1 A) / 18 (0.3 A)	5.9	Flyback	DI-133	
	TinySwitch-III	85-265	5 / 24	9.65	Flyback	DI-123	
	TinySwitch-III	85-265	-5 / -12	13 (7.2 PK)	Flyback	DI-122	
	TOPSwitch-HX	102-265	8 / 12	100	Flyback	DER-218	
	LinkSwitch-CV	175-265	9	2.25	Flyback	DER-214	
	TinySwitch-II	90-265	5 / 24	7.3	Flyback	DER-110	
	TOPSwitch-GX	90-300	6	10	Flyback	DER-107	
	TOPSwitch-GX	90-265	24	15	Flyback	DER-106	
	TOPSwitch-GX	207-400	14 / 5	19.3	Flyback	DER-105	
	LinkSwitch-TN	85-135	-24	4.8	Buck/Boost	DER-59	
	TOPSwitch-GX	85-265	12 / -14	20	Flyback	DER-53	
	LinkSwitch-TN	108-265	-12	3	Buck/Boost	DER-49	
LinkSwitch-TN	85-265	12	1.44	Buck	EPR-48		
LinkSwitch-TN	85-265	12	1.8	Buck/Boost	DER-45		
TOPSwitch-GX	85-265	5 / 13 / 24	15	Flyback	DER-28		
Audio Amplifier	PeakSwitch	90-265	± 28 / 12	54 (200 PK)	Flyback	DI-203, RDR-203	
	PeakSwitch	90-265	12	24 (36 PK)	Flyback	DI-151	
	PeakSwitch	90-132, 180-265	32	70 (126 PK)	Flyback	DI-149	
	PeakSwitch	195-265	± 26 / ± 15 / 5	75 (126 PK)	Flyback	DI-148	
	PeakSwitch	195-265	± 26 / -15 / 10 / 5	60 (200 PK)	Flyback	DI-147	
	PeakSwitch	90-265	12	20 (43 PK)	Flyback	DI-134	
	TOPSwitch-GX	85-265	16	16	Flyback	DI-34	

Reference Designs

Application	Product Family	AC Input Voltage (V)	Output Voltage (V)	Output Power (W)	Topology	Document	DAK/RDK
Charger/Adapter	LinkSwitch-II	85-264	5	5	Flyback	DER-267	
	LinkZero-LP	85-265	6	2.1	Flyback	DER-258	
	TOPSwitch-JX	90-265	12	18	Flyback	DER-237	
	TOPSwitch-HX	90-265	12	18	Flyback	DER-234	
	TOPSwitch-HX	90-265	6	15	Flyback	DER-233	
	LinSwitch-XT	85-265	5	3	Flyback	DER-227	
	LinkSwitch-II	85-265	5	2.75	Flyback	DER-207	
	LinkSwitch-CV	90-265	5	6	Flyback	DI-201, RDR-201	RDK-201
	TOPSwitch-HX	90-265	19	65	Flyback	DER-197, DI-197	
	TOPSwitch-HX	90-265	19.7	65	Flyback	DER-196, DI-196	
	TOPSwitch-HX	90-265	19 / ± 5%	65	Flyback	DI-182	
	LinkSwitch-II	85-265	8	2.4	Flyback	DI-159, RDR-159	RDK-160
	LinkSwitch-II	85-265	5	5	Flyback	DI-158, RDR-158	RDK-160
	LinkSwitch-II	85-265	5	2.75	Flyback	DI-157, RDR-157	RDK-160
	TinySwitch-III	90-265	5 / ± 5%	10	Flyback	DI-140	
	LinkSwitch-XT	90-264	5	2.75	Flyback	DER-135, DI-135	
	LinkSwitch-LP	90-265	5	1.75	Flyback	DI-132	
	TinySwitch-III	90-265	5.7	4.5	Flyback	DI-118	
	TinySwitch-III	90-265	12	15	Flyback	DI-117	
	TinySwitch-III	85-265	5	5	Flyback	DI-113	
LinkSwitch-XT	85-265	6.2	2	Flyback	DI-89, EPR-89	DAK-89	
LinkSwitch-LP	85-265	6	2	Flyback	DI-85, EPR-85	DAK-85	
TinySwitch-II	85-265	5 (0.6 A)	3	Flyback	DI-84		
LinkSwitch-HF	85-265	5.2	1.6	Flyback	DI-78		
LinkSwitch-XT	85-265	5	3	Flyback	DER-62		
Cordless Phone	LinkSwitch-LP	85-265	7.7	1.6	Flyback	DI-119	
	LinkSwitch-LP	85-265	7.7	1.6	Flyback	RDR-83	RDK-83
DC-DC Converter / Communications	DPA-Switch	36-75 (DC)	3.3	6.6	Flyback	EPR-71	DAK-71A
	DPA-Switch	36-75 (DC)	12	60	Flyback	DI-57	
	DPA-Switch	36-75 (DC)	± 12	19.2	Flyback	DI-56	
	DPA-Switch	36-75 (DC)	5 / 3.3	50	Forward Sync. Rect.	DI-53	
	DPA-Switch	36-75 (DC)	12	60	Forward Sync. Rect.	DI-52	
	DPA-Switch	36-75 (DC)	5	5	Flyback	DI-51	
	DPA-Switch	36-75 (DC)	2.5	20	Forward Sync. Rect.	DI-40	
	DPA-Switch	36-75 (DC)	3.3	16.5	Forward Sync. Rect.	DI-37	
	DPA-Switch	36-75 (DC)	5	70	Forward Sync. Rect.	DI-31	
	DPA-Switch	36-75 (DC)	7	25	Flyback	DI-29	
	DPA-Switch	36-75 (DC)	5	30	Forward Sync. Rect.	DI-25	
	DPA-Switch	36-75 (DC)	5	30	Forward Sync. Rect.	DI-24	
DPA-Switch	36-75 (DC)	5	30	Forward Sync. Rect.	EPR-21	DAK-21A	

Reference Designs

Application	Product Family	AC Input Voltage (V)	Output Voltage (V)	Output Power (W)	Topology	Document	DAK/RDK
DC-DC Converter / IP Phone	DPA-Switch	36-72 (DC)	5 / 7.5 / 20	15	Forward Sync. Rect.	DER-24	
DC-DC Converter / PoE Class 0-3	DPA-Switch	36-57 (DC)	3.3	6.49	Flyback	DI-88	
DC-DC Converter / PoE Class 2 PD	DPA-Switch	33-57 (DC)	3.3	6.6	Flyback	EPR-86	DAK-86
DC-DC Converter / PoE/VoIP	DPA-Switch	36-75 (DC)				DI-102	
	DPA-Switch	36-75 (DC)				DI-101	
DC-DC Converter / PoE/VoIP Phone	DPA-Switch	36-75 (DC)	5 / 7.5 / 20	15	Forward Sync. Rect.	DI-70	
	DPA-Switch	36-57 (DC)	3.3	6.6	Flyback	EPR-68	DAK-68A
DC-DC Converter / Security Camera	DPA-Switch	28-60 (DC)	3.3 / 9 / 24	22	Flyback	DER-120	
DC-DC Converter / VoIP Phone	DPA-Switch	37-57 (DC)	3.3 / 5 / 12	10	Flyback	DER-96	
	DPA-Switch	36-75 (DC)	5 / 7.5 / 20	15	Forward Sync. Rect.	DI-69	
DC-DC Power Supply	DPA-Switch	36-75 (DC)	12	60	Flyback	DER-20	
Digital Video Recorder	TOPSwitch-GX	85-265	3.3 / 5 / 12 / 23 / 30	41	Flyback	DER-98	
	TOPSwitch-GX	85-265	30 / 23 / 12 / 5 / 3.3	41	Flyback	DER-44	
DVD / Set-Top Box	TinySwitch-III	90-265	5 / ± 12 / -24	25	Flyback	DI-116	
	TinySwitch-PK	85-265	3.3 / 5 / ± 12	7.5 (13 PK)	Flyback	DI-115, RDR-115	RDK-115
DVD Player / Recorder	LinkSwitch-CV	85-265	5 / 12 / -22	7 (cont.) / 10 (PK)	Flyback	DI-198, DER-198	
	TOPSwitch-GX	85-265	3.3 / 5 / 12 / -24	20	Flyback	DI-55	
	TOPSwitch-GX	90-265	12 / 5 / 3.3 / -22	21	Flyback	DER-40	
	TOPSwitch-GX	85-265	3.3 / 5 / ± 12	13	Flyback	DI-39	
	TOPSwitch-GX	90-265	3.4 / 12 / 5 / 6 / 14 / 40	11	Flyback	DER-21	
	TOPSwitch-GX	90-265	3.4 / 3.5 / 5.1 / 12 / 33 / -5.3 / -22	17	Flyback	DER-18	
DVD Player / Recorder (portable)	TOPSwitch-GX	90-265	9.7	30	Flyback	DER-95	
General Purpose	TOPSwitch-JX	85-264	12	30	Flyback	RDR-242	RDK-242
	TinySwitch-III	85-265	12	15	Flyback	DER-228	
	LinkSwitch-CV	85-265	5 / 12	3.8	Flyback	DER-213	
	TOPSwitch-HX	85-265	12	20	Flyback	DER-188	
	TinySwitch-III	85-265	12	12	Flyback	DI-91, RDR-91	RDK-91
	TOPSwitch-GX	85-265	12	30	Flyback	EPR-34	
High-Speed Modem	TOPSwitch-GX	85-265	3.3 / 5 / 30	10	Flyback	DI-23	
	TOPSwitch-GX	85-265	3.3 / 5 / 30	10	Flyback	EPR-18	
Industrial Controls	LinkSwitch-LP	185-265	12	2.5	Flyback	DI-202	
	TinySwitch-III	18-30	5	1.25	Flyback	DI-153	
	TinySwitch-III	18-265	5	3	Flyback	DI-152	
LCD Monitor	TOPSwitch-JX	90-264	5 / 16	36.3	Flyback	DER-259	
	TOPSwitch-JX	90-265	5 / 14.5	27	Flyback	DER-235	
	TinySwitch-PK	90-265	5 / 14.5	27	Flyback	DER-229	
	TOPSwitch-HX	90-265	5 / 15	40	Flyback	DER-191	
	TOPSwitch-HX	90-265	13	35	Flyback	DER-187, DI-187	
	TOPSwitch-HX	90-265	5 / 15	35	Flyback	DI-146	
	TOPSwitch-HX	90-256	5 / 12	35	Flyback	DI-142, RDR-142	RDK-142

Reference Designs

Application	Product Family	AC Input Voltage (V)	Output Voltage (V)	Output Power (W)	Topology	Document	DAK/RDK	
LCD TV	TOPSwitch-HX / TinySwitch-III	108-132	24, 12, 5	133	Flyback	DER-204		
	HiperPLC / TinySwitch-III	85-265	24, 12, 5, 5	225 (285)	PFC + LLC	RDR-189	RDK-189	
LED Backlight	DPA-Switch	24 (DC)	40 (0.5 A) / 60 (0.5 A)	20 / 30	Boost	DER-112		
LED Driver	LinkSwitch-PH	90-265	18	7	Flyback	DER-277		
	LinkSwitch-PH	90-265	36	12	Buck-Boost	DER-273		
	LinkSwitch-PH	185-264	26.5	6.9	Flyback	DER-269		
	LinkSwitch-PL	85-265	3	1.1	Flyback	RDR-268	RDK-268	
	LinkSwitch-PH	198-265	22	8	Flyback	DER-264		
	LinkSwitch-PH	90-265	36	12	Buck	RDR-257	RDK-257	
	LinkSwitch-PL	90-265	12-18	5	Flyback	RDR-251	RDK-251	
	LinkSwitch-II	90-265	12	3.6	Flyback	DER-261		
	LinkSwitch-PH	90-265	50	15	Flyback	DER-256		
	LinkSwitch-PH	90-265	28	14	Flyback	RDR-194	RDK-194	
	LinkSwitch-PH	90-265	21	7	Flyback	RDR-193	RDK-193	
	LinkSwitch-PH	90-265	36	12	Buck	DER-192		
	HiperPLC	140-265	48	150	PFC + LLC Half-bridge	DER-212		
	LinkSwitch-TN	85-265	554	11	Boost	DI-210		
	LinkSwitch-II	90-265	10.5	3.6	Flyback	DI-206		
	LinkSwitch-II	85-265	12	8.4	Flyback	DER-215		
	LinkSwitch-II	85-265	12	4.2	Tapped Buck	DER-186, DI-186		
	LinkSwitch-II	85-265	12	4.2	Flyback	DER-185, DI-185		
	LinkSwitch-II	85-265	7.6	5.32	Flyback	DER-184, DI-184		
	TinySwitch-III	195-265	20	14	Flyback	DER-173, DI-173		
	LinkSwitch-TN	90-132	70	9.1	Buck	DER-172, DI-172		
	LinkSwitch-TN	108-132	70	9	Buck-Boost	DI-171		
	TOPSwitch-GX	85-277	12 / 18 (1.67 A)	20	Flyback	DER-168, DI-168		
	TOPSwitch-GX	85-277	12	1.67	Flyback	DER-167		
	TOPSwitch-GX	208-277	24	75	Flyback	DER-136		
	LinkSwitch-TN	85-265	12	3	Buck	DI-131, RDR-131	RDK-131	
	TinySwitch-III	185-265	10 (1.8 A)	18	Flyback	DI-130		
	TOPSwitch-GX	90-265	8	24	Flyback	DER-100		
	LinkSwitch-TN	85-265	12.9 (40 mA)	0.5	Buck-Boost	DER-92, DI-92		
	LinkSwitch-TN	85-265	12 (100 mA)	1.25	Buck-Boost	DI-74		
	Motor Control	PeakSwitch	90-265	12	36 (72 PK)	Flyback	DI-128, RDR-128	RDK-128
		LinkSwitch-TN	85-265	15 / 12	1.6	Flyback	DER-48	
LinkSwitch-TN		85-265	15	2	Buck	DER-47		
Notebook Adapter	TOPSwitch-JX	90-265	19	65	Flyback	DER-243		
	TOPSwitch-HX	90-265	19.7	65	Flyback	DER-232		
	TOPSwitch-HX	90-265	19	40	Flyback	DER-230		
	TOPSwitch-HX	90-264	19	40	Flyback	DI-199		
	TOPSwitch-HX	85-265	19.7	65	Flyback	DER-196		
	TOPSwitch-GX	85-265	19	70	Flyback	DI-22		
	TOPSwitch-GX	85-265	19	70	Flyback	EPR-11		

Reference Designs

Application	Product Family	AC Input Voltage (V)	Output Voltage (V)	Output Power (W)	Topology	Document	DAK/RDK
PC Main	HiperPFS	180-264	380	900	PFC Boost	DER-274	
	HiperPFS	90-264	380	100	PFC Boost	DER-272	
	HiperPFS	90-264	380	180	PFC Boost	RDR-248	RDK-248
	HiperTFS	300-385	5 / 12	300	Flyback	RDR-249	RDK-249
	HiperPFS	90-264	380	347	PFC Boost	RDR-236	RDK-236
	TOPSwitch-GX	90-132 / 180-265	3.3 / 5 / \pm 12	180	Forward Sync. Rect.	EPR-31	
	TOPSwitch-GX	90-130 / 180-265	3.3 / 5 / \pm 12	180	Forward Sync. Rect.	DI-30	
	TOPSwitch-GX	90-130 / 180-265	3.3 / 5 / 12	145	Forward Sync. Rect.	DI-20	
PC Standby	TOPSwitch-GX	90-132 / 180-265	3.3 / 5 / 12	145	Forward Sync. Rect.	EPR-12	
	TOPSwitch-JX	110-400	12	30	Flyback	DER-275	
	CAPZero	85-264	N/A	N/A	N/A	RDR-252	RDK-252
	TOPSwitch-JX	110-400	5	20	Flyback	DER-247	
	TOPSwitch-JX	110-400	12	30	Flyback	DER-246	
	TOPSwitch-HX	100-375 (DC)	5	20	Flyback	DI-190	
Portable Audio Player	TinySwitch-III	85-295 / 110-420 (DC)	5 (4 A) / 15 (67 mA)	21	Flyback	DER-114	
	TinySwitch-III	90-265	5 / \pm 5%	10	Flyback	DI-140	
Portable Game Console	TinySwitch-III	85-264	5	5	Flyback	DER-113	
	TinySwitch-PK	90-265	5	10 (15 PK)	Flyback	DI-145	
Printer (Inkjet)	TOPSwitch-HX	90-264	32	20 (80 PK)	Flyback	DI-143	
	PeakSwitch	90-265	30	32	Flyback	DI-93, EPR-93	DAK-93
Printer (Laser)	TOPSwitch-JX	90-264	5	50	Flyback	DER-245	
Set-Top Box	TinySwitch-III	85-300	3.3 / 5 / 22	15	Flyback	DI-163	
	TOPSwitch-HX	85-265	12	30	Flyback	DI-162	
	TOPSwitch-GX	160-275	3.3 / 5 / 9	17.4	Flyback	DER-99	
	TOPSwitch-GX	195-265	1.8 / 3.3 / 5 / 12	16	Flyback	DER-51	
	TOPSwitch-GX	195-265	2.5 / 3.3 / 5 / 9 / 32	13	Flyback	DER-34	
	TOPSwitch-GX	195-265	2.5 / 3.3 / 5 / 6.6 / 12	13	Flyback	DER-23	
	TOPSwitch-GX	98-135	1.8 / 3.3 / 7 / 17 / 22	16	Flyback	DER-22	
	TOPSwitch-GX	195-265	3.3 / 5 / 12 / 20	32	Flyback	DER-19	
Set-Top Box / PVR	PeakSwitch	195-265	3.3 / 5 / 17.5 / 22	33 (60 PK)	Flyback	DI-129	
Telecom	DPA-Switch	-36 to -75 (DC)	3.3 / \pm 5	22	Forward Sync. Rect.	DER-32	
	DPA-Switch	38-58 (DC)	6.5 / 8.2 / 12.5 / -5	26	Forward Sync. Rect.	DER-31	
	DPA-Switch	-36 to -72 (DC)	3.3	3.3	Flyback	DER-30	
Telecom Line Card	DPA-Switch	-40 (DC)	-28 / -65	24.5	Flyback	DER-43	
Utility Meter	LinkSwitch-LP	85-265	7	0.98	Flyback	DI-164	
	LinkSwitch-XT	85-265	5	75	Flyback	DER-141, DI-141	
	LinkSwitch-TN	85-265	12 / 3.3	1.25	Buck	DI-139	
	LinkSwitch-TN	85-265	12 / 5	1.2	Buck / Buck-Derived	RDR-138	RDK-138
	LinkSwitch-TN	57-580	12	3	Flyback	DI-124	
	LinkSwitch-TN	85-265	12	0.6	Buck	DI-80	
	LinkSwitch-TN	57-580	12	3	Flyback	DER-58	
Video Game	TOPSwitch-GX	90-265	5.25	16	Flyback	DER-37	
VoIP AC Adapter	TOPSwitch-GX	85-265	48	21.7	Flyback	DER-97	

Worldwide Sales Support Locations

World Headquarters

5245 Hellyer Avenue
San Jose, CA 95138, USA
Main: +1 408-414-9200
Customer Service
Phone: +1-408-414-9665
Fax: +1-408-414-9765
Email: usasales@powerint.com
info@powerint.com

Worldwide Applications

Hotline: +1-408-414-9660
Fax: +1-408-414-9760

On the Web

www.powerint.com

China (Chengdu)

Room 1426
Colorful Holiday International Mansion
No. 2 Baisi Street
Chengdu, P.R.C. 610016
Phone: +86-028-8676-3012
Fax: +86-028-8676-3011
Email: chinasales@powerint.com

China (Shanghai)

Room 1601/1610, Tower 1
Kerry Everbright City
No. 218 Tianmu Road West
Shanghai, P.R.C. 200070
Phone: +86-021-6354-6323
Fax: +86-021-6354-6325
Email: chinasales@powerint.com

China (Shenzhen)

Room A, B & C 4th Floor, Block C
Electronic Science & Technology Building
2070 Shennan Zhong Road
Shenzhen, Guangdong, P.R.C. 518031
Phone: +86-755-8379-3243
Fax: +86-755-8379-5828
Email: chinasales@powerint.com

Germany

Rückertstrasse 3
D-80336, Munich
Germany
Phone: +49-89-5527-3911
Fax: +49-89-5527-3920
Email: eurosales@powerint.com

India

#1, 14th Main Road
Vasanthanagar
Bangalore-560052
India
Phone: +91-80-4113-8020
Fax: +91-80-4113-8023
Email: indiasales@powerint.com

Italy

Via De Amicis 2
20091 Bresso MI
Italy
Phone: +39-028-928-6000
Fax: +39-028-928-6009
Email: eurosales@powerint.com

Japan

Kosei Dai-3 Building
2-12-11, Shin-Yokohama, Kohoku-ku
Yokohama-shi, Kanagawa 222-0033
Japan
Phone: +81-45-471-1021
Fax: +81-45-471-3717
Email: japansales@powerint.com

Korea

RM 602, 6FL
Korea City Air Terminal B/D, 159-6
Samsung-Dong, Kangnam-Gu
Seoul, 135-728
Korea
Phone: +82-2-2016-6610
Fax: +82-2-2016-6630
Email: koreasales@powerint.com

Philippines

Unit 804 Tycoon Center Condominium
Pearl Drive Avenue, Ortigas Center
Pasig City, Philippines
Phone: +63-270-62824
Fax: +63-270-62824
Email: roberto.salao@powerint.com

Singapore

51 Newton Road
#15-08/10 Goldhill Plaza
Singapore, 308900
Phone: +65-6358-2160
Fax: +65-6358-2015
Email: singaporesales@powerint.com

Taiwan

5F, No. 318, Nei Hu Road, Sec. 1
Nei Hu District
Taipei 114, Taiwan R.O.C.
Phone: +886-2-2659-4570
Fax: +886-2-2659-4550
Email: taiwansales@powerint.com

United Kingdom

1st Floor, St. James's House
East Street
Farnham Surrey, GU9 7TJ
United Kingdom
Phone: +44 (0) 1252-730-144
Fax: +44 (0) 1252-727-689
Email: eurosales@powerint.com

