PWR60XX



FEATURES

- Low Cost
- Low Noise
- Industry-Standard Package
- Single and Dual Outputs
- High Isolation Voltage Option Available
- Linear Output Regulation
- Internal Input and Output Filtering
- Low EMI Transformer Design
- No External Components Required
- Thermal Shutdown Protection

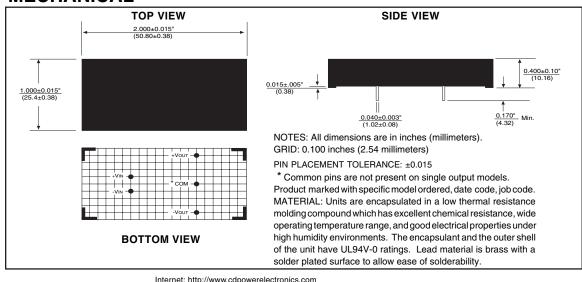
DESCRIPTION

The PWR60XX Series offers a low-cost alternative for some of the most popular DC/DC converters industry wide. Each model has very low noise and an outstanding MTTF. The superior reliability, excellent filtering, and low cost make it an excellent choice for industry-standard usage.

The series includes eleven models (other input and output voltages are available upon request), all set in an encapsulant for excellent thermal dissipation for internal components. The use of surface-mount devices and manufacturing processes combined with the encapsulation process, provides the user a product that is more environmentally rugged.

The PWR60XX has full isolation between input and output to give the designer maximum flexibility in grounding options and polarity configurations. The outputs are protected against shorts to increase the units survivability in harsh environments.

MECHANICAL



Power Electronics Division, United States 3400 E Britannia Drive, Tucson, Arizona 85706 Phone: 800.547.2537 Fax: 520.770.9369 Power Electronics Division, Europe C&D Technologies (Power Electronics) Ltd. 132 Shannon Industrial Estate, Shannon, Co. Clare, Ireland Tel: +353.61.474.133 Fax:+355.61.474.141

ELECTRICAL SPECIFICATIONS

Specifications typical at $T_{\Delta} = +25^{\circ}C$, rated input voltage, rated output current unless otherwise specified.

	NOMINAL INPUT VOLTAGE	RATED OUTPUT VOLTAGE	RATED OUTPUT CURRENT	NO RATED LOAD		REFLECTED RIPPLE CURRENT	EFFICIENCY
MODEL	(VDC)	(VDC)	(mA)	(mA)	(mA)	(mAp-p)	(%)
PWR6000	5	5	360	70	655	15	55
PWR6004	5	±12	±75	70	570	15	63
PWR6005	5	±15	±60	70	555	15	65
PWR6006	12	5	360	30	275	10	55
PWR6010	12	±12	±75	30	240	10	63
PWR6011	12	±15	±60	30	230	10	65
PWR6012	15	5	360	25	220	8	55
PWR6016	15	±12	±75	25	190	8	63
PWR6017	15	±15	±60	25	185	8	65
PWR6018	24	5	360	13	120	12	62
PWR6023	24	±15	±60	13	120	12	62

NOTE: Other input to output voltages may be available. Please consult factory.

COMMON SPECIFICATIONS

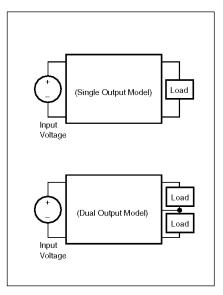
Specifications typical at $T_{\Delta} = +25$ °C, rated input voltage, rated output current unless otherwise specified.

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PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS			
INPUT	PWR6000	4.65	5.0	5.5	VDC			
	PWR6004	4.65	5.0	5.5	VDC			
	PWR6005	4.65	5.0	5.5	VDC			
	PWR6006	10.9	12.0	13.2	VDC			
	PWR6010	10.9	12.0	13.2	VDC			
	PWR6011	10.9	12.0	13.2	VDC			
	PWR6012	13.9	15.0	16.5	VDC			
	PWR6016	13.9	15.0	16.5	VDC			
	PWR6017	13.9	15.0	16.5	VDC			
	PWR6018	21.6	24	26.4	VDC			
	PWR6023	21.6	24	26.4	VDC			
ISOLATION (Standard)								
Rated Voltage		500			VDC			
Test Voltage		500			Vpk			
Resistance			10		GΩ			
Capacitance			27		pF			
Leakage Current	V _{ISO} = 240 VAC, 60 Hz			5	μArms			
IOOLATION (IIV Outle u)								
ISOLATION (–HV Option)		1000			VDC			
Rated Voltage Test Voltage		1000 3000			1			
Resistance		3000	10		Vpk GΩ			
Capacitance			27		pF			
Leakage Current	V _{ISO} = 240VAC, 60Hz		21	5	μArms			
	V _{ISO} = 240 VAC, 001 12			3	μΑιτιδ			
OUTPUT								
Rated Power	–25°C - T _A - +70°C		1.8		Watts			
Voltage Setpoint Accuracy	Rated Load, Nominal Vin			±2	%			
Temperature Coefficient			±0.01		%/°C			
Ripple and Noise	BW = DC to 10MHz		20	45	mVp-p			
REGULATION								
Line	High Line to Low Line		±0.2	±1.0	%			
Load	Full Load to No Load		0.5	1.0	%			
GENERAL								
Switching Frequency			150		kHz			
Package Weight			20		g			
MTTF per MIL-HDBK-217, RevE	Circuit Stress Method		930,000		Hr			
TEMPERATURE								
Specification		-25	+25	+70	°C			
Operation		-25		+100	∘C			
Storage		-40		+110	∘C			
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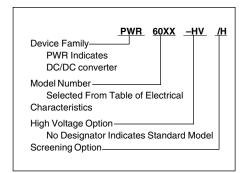
ABSOLUTE MAXIMUM RATINGS

Output Short-Circuit Duration	
Outputs to Common Continuous	
Output to Output Momentary	
Output Power2.0W	
Lead Temperature+300°C	
(soldering, 10 seconds max)	

TYPICAL APPLICATIONS



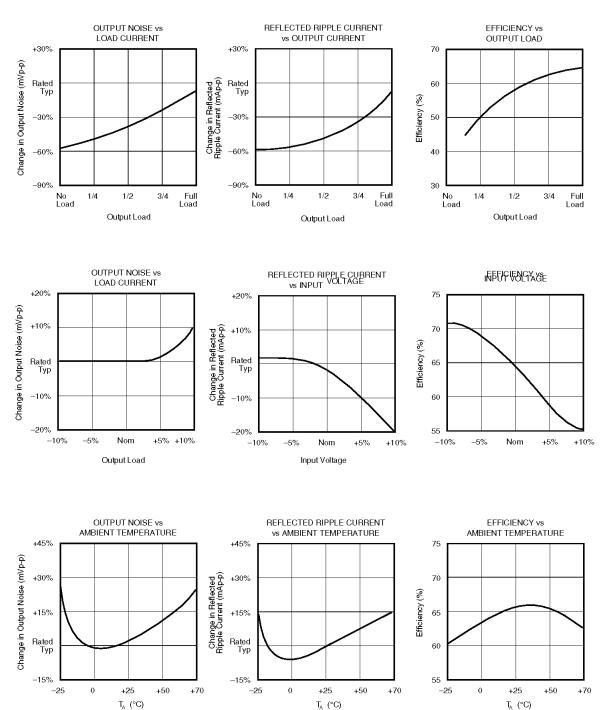
ORDERING INFORMATION



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TYPICAL PERFORMANCE CURVES

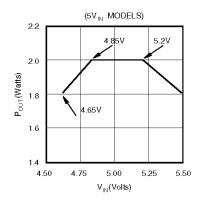
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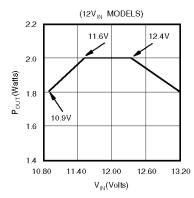


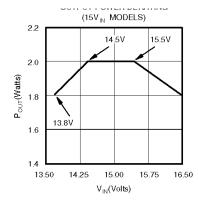
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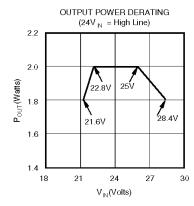
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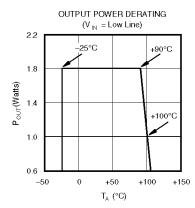
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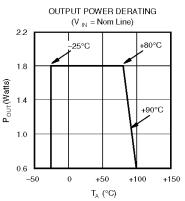


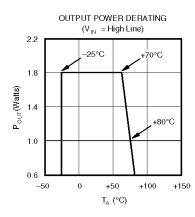












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