

1.8 WATT REGULATED DC/DC CONVERTER

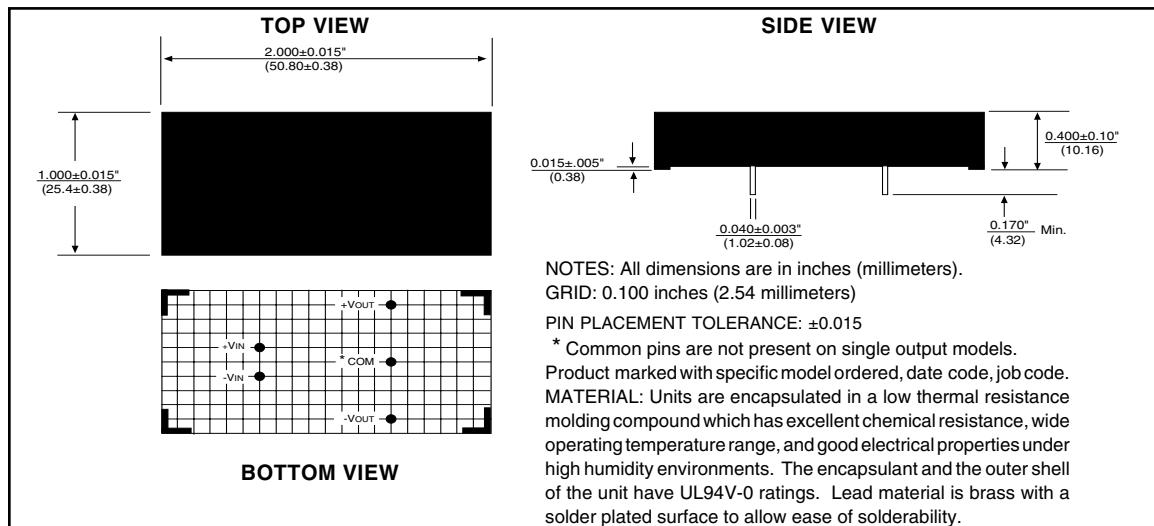
PWR60XX



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

MECHANICAL

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ELECTRICAL SPECIFICATIONS

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

MODEL	NOMINAL INPUT VOLTAGE (Vdc)	RATED OUTPUT VOLTAGE (Vdc)	RATED OUTPUT CURRENT (mA)	INPUT CURRENT		REFLECTED RIPPLE CURRENT (mA $\mu\text{p-p}$)	EFFICIENCY (%)
				NO LOAD (mA)	RATED LOAD (mA)		
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

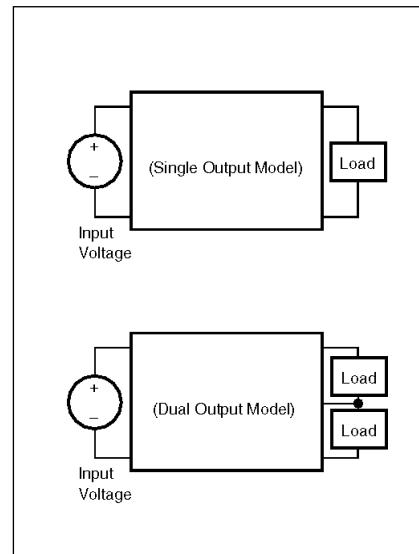
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PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT	PWR6000	4.65	5.0	5.5	Vdc
	PWR6004	4.65	5.0	5.5	Vdc
	PWR6005	4.65	5.0	5.5	Vdc
	PWR6006	10.9	12.0	13.2	Vdc
	PWR6010	10.9	12.0	13.2	Vdc
	PWR6011	10.9	12.0	13.2	Vdc
	PWR6012	13.9	15.0	16.5	Vdc
	PWR6016	13.9	15.0	16.5	Vdc
	PWR6017	13.9	15.0	16.5	Vdc
	PWR6018	21.6	24	26.4	Vdc
ISOLATION (Standard)	$V_{\text{ISO}} = 240\text{VAC, 60Hz}$	500 500	10 27	5	Vdc Vpk GΩ pF μArms
ISOLATION (-HV Option)	$V_{\text{ISO}} = 240\text{VAC, 60Hz}$	1000 3000	10 27	5	Vdc Vpk GΩ pF μArms
OUTPUT	Rated Power Voltage Setpoint Accuracy Temperature Coefficient Ripple and Noise	$-25^\circ\text{C} - T_A - +70^\circ\text{C}$ Rated Load, Nominal Vin BW = dc to 10MHz	1.8 ± 0.01 20	± 2 45	Watts % %/°C mVp-p
REGULATION	Line Load	High Line to Low Line Full Load to No Load	± 0.2 0.5	± 1.0 1.0	% %
GENERAL	Switching Frequency Package Weight MTTF per MIL-HDBK-217, RevE		150 20 930,000		kHz g Hr
TEMPERATURE	Specification Operation Storage		-25 -25 -40	+25	+70 +100 +110 °C °C °C

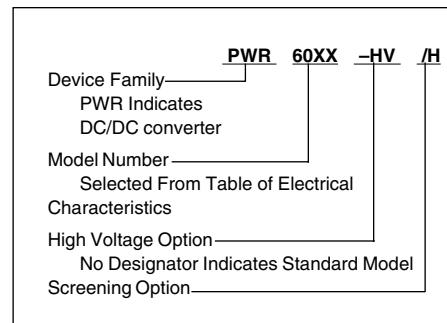
ABSOLUTE MAXIMUM RATINGS

Output Short-Circuit Duration	Outputs to Common Continuous
Output to Output	Momentary
Output Power	2.0W
Lead Temperature	+300°C (soldering, 10 seconds max)

TYPICAL APPLICATIONS

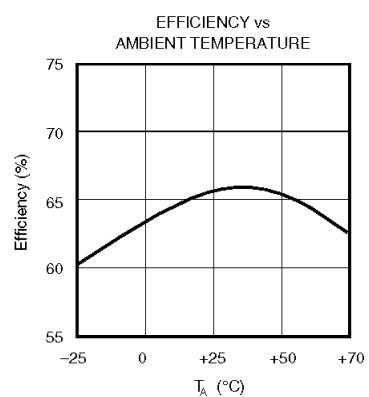
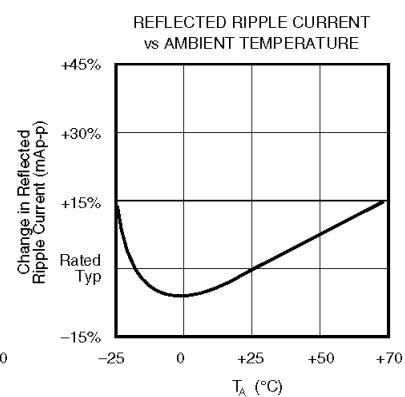
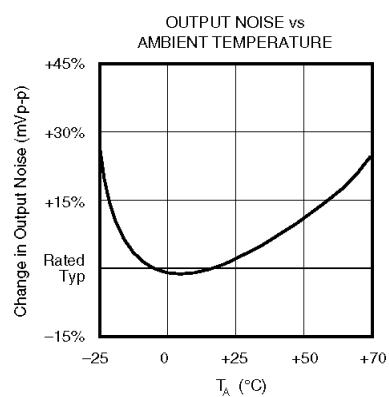
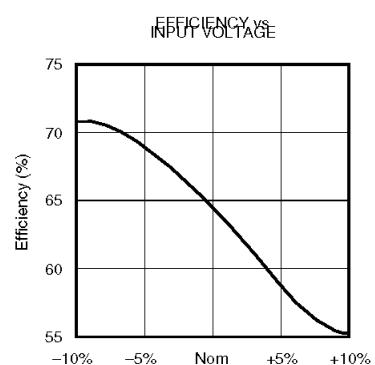
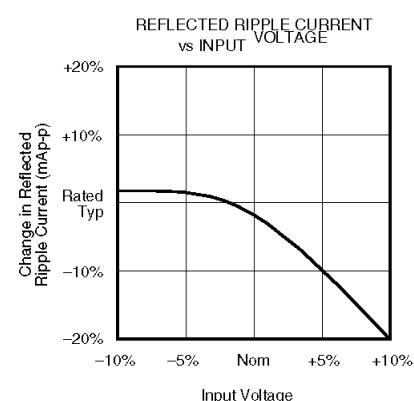
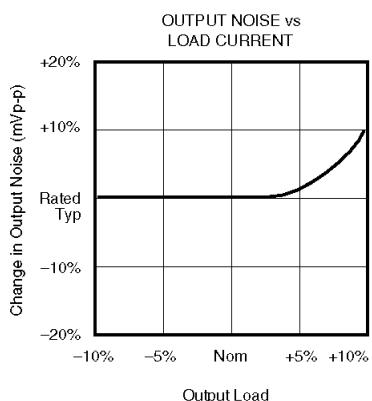
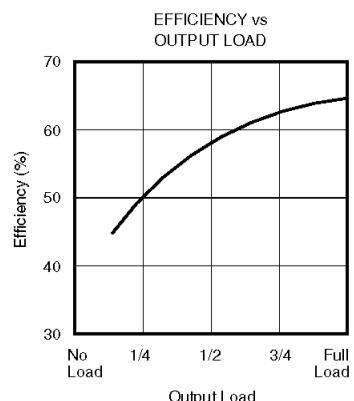
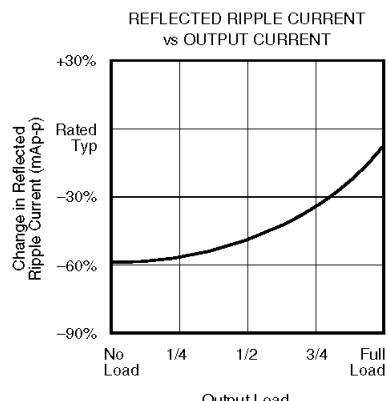
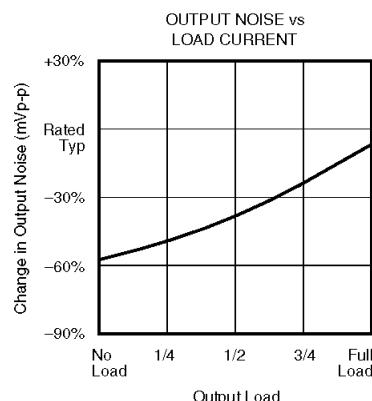


ORDERING INFORMATION



TYPICAL PERFORMANCE CURVES

$T_A = +25^\circ\text{C}$, Rated Input Voltage, Rated Output Current unless otherwise noted.



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