50 Watt HW Series

Shindengen America, Inc.

FEATURES

- Wide-Range Input Voltage
- Industry-Standard Pin Out
- Adjustable Output Voltage (60% - 110%)
- Remote ON/OFF
- Remote Sense
- Constant Frequency
- Thermal Shutdown
- High Power Density (Up to 36.5 W/in^3)

SPECIFICATIONS

INPUT

Voltage/Current	See Model Selection Table
Max. Input Current	6.0 A
(V_{in} = 0 to 72 VDC)	
Max. Inrush Transient	2.0 A^{2}s
Reflected Ripple Current	20 mA (peak-to-peak)
Ripple Rejection	60 dB

OUTPUT

Output Voltage	See Model Selection Table
Set Point	±1%
Regulation	
Line	0.01% (typ.)
Load	0.05% (typ.l)
Ripple (RMS)	
3.3V, 5V	40 mV
12V, 15V	80 mV
Noise (peak-to-peak)	
3.3V, 5V	100 mV
12V, 15V	150 mV
	(measured with a 20 MHz bandwidth)
Temperature Drift	±0.01%/˚C
Overvoltage Protection	120%
Current Limit Inception	115%
Short Circuit Current	130%
Efficiency	See Model Selection Table
Isolation	
Voltage	500 VDC
Capacitance	2000 pf
Resistance	> 10 MΩ

ENVIRONMENTAL

Operating Case Temp.	–40 to +100˚C
Storage Temp.	–40 to +110˚C

MECHANICAL

Size (W x D x H)	2.40 x 2.28 x 0.50 inches
	(61 x 58 x 13 mm)
Weight	3.5 oz. (99 g)

See drawing on page 110

MODEL SPECIFICATIONS

Output		Input Range			
Volts	Amps	24 (18-36) VDC		48 (36-72) VDC	
		Model	Effic.	Model	Effic.
2.0 VDC	0 - 10A	HWE02010	70%	HWG02010	71%
3.3 VDC	0 - 10A	HWE03010	78%	HWG03010	80%
5.0 VDC	0 - 10A	HWE05010	82%	HWG05010	85%
12.0 VDC	0 - 4.17A	HWE124R2	85%	HWG124R2	87%
15.0 VDC	0 - 3.33A	HWE153R3	85%	HWG153R3	88%
24.0 VDC	0 - 2.08A	HWE242R1	85%	HWG242R1	88%