

# HRP-150 / HRP-150 Series

150 Watt Single Output Models

# Mean Well

General Purpose Switching Power Supply

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DIMENSIONS:

6.26 x 3.82 x 1.50"



## FEATURES:

- Built-in active PFC function, PF>0.95
- High efficiency up to 88% (typ.)
- Over Voltage / Current / Temperature Protection Circuits
- No load power consumption<0.5W
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Built-in remote sense function
- "G" Option for Remote ON-OFF control & Stand by 5V / 0.3A
- 5 year warranty



## INPUT SPECIFICATIONS:

VOLTAGE	Universal AC Input (85-264VAC)
FREQUENCY	47-63 Hz
INRUSH	65A max @ 230VAC (cold start)
CURRENT	2.3A max @ 115 VAC / 1.3A max @ 230VAC
LEAKAGE	<1mA maximum @ 240VAC
HOLD-UP	>16ms full load (minimum)
EFFICIENCY	80-88% Typical (depending on output model)
HARMONICS	EN61000-3-2,-3 Class D (>0.95 PF @ 23VAC)

## OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	±10% (minimum)
MINIMUM LOAD	n/a
REGULATION	0.5% Line / 1% Load (max)
RIPPLE	80-240mV pk-pk maximum (20MHz)
SETPOINT ACCURACY	±1.5-2.5% (max)
OVER CURRENT	105-135%, constant current, auto-recovery
OVER VOLTAGE PROTECTION	120-135% of Vout (nominal)

## STATUS & CONTROL SPECIFICATIONS:

REMOTE SENSE	Compensates for <250mV Drop
AUXILIARY OUTPUT	HRPG Models only, 5VSB @ 300ma
REMOTE ON/OFF	HRPG models only, 4 ~ 10V or open = power on

## DOWNLOADS:

Soft Copy of this Specification:

<http://www.powergatellc.com/pdfs/HRP-150.pdf>

HRPG Models Detailed Specification:

<http://www.meanwell.com/search/hrpg-150/hrpg-150-spec.pdf>

HRP Models Detailed Specification:

<http://www.meanwell.com/search/hrp-150/hrp-150-spec.pdf>

## ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE	-30- +70°C (Refer to de-rating curve)
STORAGE TEMPERATURE	-40°C - +85°C max.
COOLING	Convection Cooled Operation (See de-rating curve)
HUMIDITY	20-90%RH (non-condensing)
VIBRATION	10-500Hz, 5G 10min/1 cycle for 60 min (3 axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>213.4K hours minimum per MIL-HDBK-217F (25°C)
WEIGHT	1.388

## EMISSIONS:

ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADITED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

## STANDARDS:

SAFETY	UL/cUL 60950-1
SAFETY	TUV EN60950-1
SAFETY	CE Mark (LVD)
SAFETY	CB Report
SAFETY	CE Mark (LVD)
EMISSIONS	EN55022 Class B (CISPR22)

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**MODELS:**

HRP-150-3.3	3.3V	30A	1) HRP-150 Models do not have Control or 5VAux
HRP-150-5	5V	26A	2) Add "G" (HRPG-150) to designate control & 5VAux
HRP-150-7.5	7.5V	20A	
HRP-150-12	12V	13A	
HRP-150-15	15V	10A	
HRP-150-24	24V	6.5A	
HRP-150-36	36V	4.3A	
HRP-150-48	48V	3.3A	

**NOTE:**

**HRP G -150-xx**

Add G to designate 5VSB & Remote On/Off Control

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG		

Connector Pin No. Assignment (CN100):  
HRS DF11-6DP-2DS or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	-S	HRS DF11-6DS or equivalent	HRS DF11-**SC or equivalent
2	+S		
3*	AUXG		
4*	AUX		
5*	RC-		
6*	RC+		

\* with G option only, otherwise not connected

