

1500 Watts

- High Efficiency up to 92%
- High Power Density
- Programmable Output Voltage (0-105%)
- Programmable Output Current (0-105%)
- Parallel Operation
- Fully Featured Signals & Controls
- 3 Year Warranty



The HDS1500 series offers users both output voltage and output current programming (0 – 105%) via resistance, voltage or I²C bus in a very high efficiency, high power density 3 kW chassis mount package. Measuring just 12.32" x 2.5" x 5.0", the HDS1500 also features active current sharing, remote on/off, remote sense and a power OK signal. The standby output is available whenever the mains supply is present and can be user selected as either 5 V at 0.5 A or 9V at 0.3 A.

Dimensions:

HDS1500:
12.32 x 2.50 x 5.00" (294.5 x 63.5 x 127 mm)

Models & Ratings

Output Power	Output Voltage V1	Output Current		Efficiency ⁽¹⁾	Model Number
		Min	Max		
1500 W	12.0 VDC	0.0 A	125.0 A	89%	HDS1500PS12
1500 W	15.0 VDC	0.0 A	100.0 A	90%	HDS1500PS15
1500 W	24.0 VDC	0.0 A	62.5 A	91%	HDS1500PS24
1500 W	30.0 VDC	0.0 A	50.0 A	92%	HDS1500PS30
1500 W	36.0 VDC	0.0 A	41.7 A	92%	HDS1500PS36
1500 W	48.0 VDC	0.0 A	31.3 A	92%	HDS1500PS48
1500 W	60.0 VDC	0.0 A	25.0 A	93%	HDS1500PS60

Notes

1. Measured with 230 VAC input and full load.

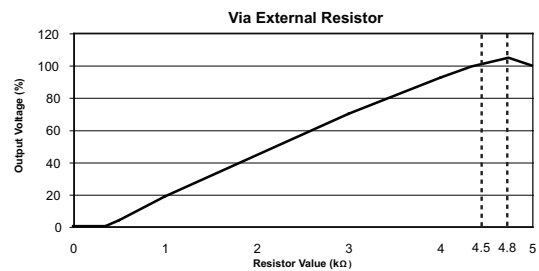
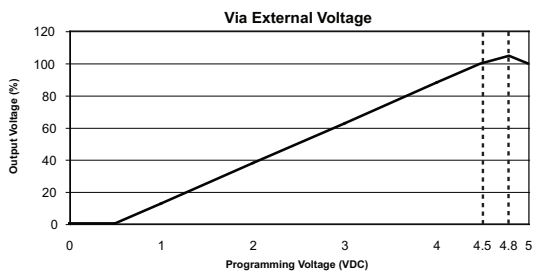
Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	90		264	VAC	See derating curve
Input Frequency	47		63	Hz	
Power Factor		0.99/0.98			115/230 VAC full load
Input Current			18/9	A	115/230 VAC
Inrush Current			30.0/60/0	A	115/230 VAC
Earth Leakage Current			1.0	mA	264 VAC/60 Hz
Input Protection	F20 A/250 V internal fuse				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	12		60	VDC	See Models and Ratings table
Output Trim		±5.0		%	By potentiometer
Output Voltage Program	0		105	%	Of rated output
Output Current Program	0		105	%	Of rated output
Initial Set Accuracy			±1	%	
Minimum Load	0			A	
Start Up Delay			1	s	
Start Up Rise Time			120	ms	At full load
Hold Up Time	8			ms	
Line Regulation			±1	%	
Load Regulation			±1/±3	%	0-100% load. V1/5V standby
Transient Response			1	%	For a 25% step load change
Ripple & Noise			1	% pk-pk	1.25% for 12 V model. Measured with 20 MHz bandwidth and using 12" twisted pair wire terminated with 0.1 μF ceramic capacitor and 47 μF electrolytic.
Oversvoltage Protection					Tracks output voltage, see application notes Recycle AC to reset
Overtemperature Protection					Primary and secondary heatsinks, monitored Output shuts down, auto recovers
Overload Protection		105		%	Rated power, constant current
Short Circuit Protection					Auto recovery
Temperature Coefficient		±0.02		%/°C	0-50 °C
Remote Sense	Compensates for 0.5 V max voltage drop, if remote sense is not required, local sense must be used				
Enable	Output must be enabled, see application notes, power supply is shipped with enable links fitted				
Current Share	5 supplies can share within 5%				
Standby Output	5 V at 0.5 A, present whenever AC is applied (9 V at 0.3 A, user selectable, by connecting 'VSET', Pin 18 of CN2 to GND)				

Output Voltage Programming



Output Current Programming

