

# HWS1000 - 1500 SERIES

AC / DC Single Output: 1000 ~ 1500 Watts



## Features

- 5<sup>th</sup> Generation design
- Universal input 85 - 265VAC
- Wide output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor Correction 0.98
- External output voltage control: 20% ~ 120% range.
- EMC EN55022, Immunity to EN61000-4
- International safety approvals EN60950, UL60950
- Low profile 2U height for both 1KW & 1.5KW models
- Medical grade option –**ME** Industrial grade option – **HD**
- **Not suitable for battery charging**

## Specifications

<b>Input Voltage</b>	85 ~ 264VAC, 120 ~ 330VDC
<b>Frequency</b>	47 ~ 63Hz
<b>Output Voltage</b>	3.3 ~ 60VDC options
<b>Output V Range</b>	Typically $\pm 10\%$ via front panel trim pot.
<b>Indicator</b>	Led for DC OK
<b>Output Power</b>	1000 ~ 1500 watts
<b>Efficiency</b>	Model Dependent 73 ~ 90%
<b>Input Current</b>	HWS1000: 13.5A / 7.0A (115 / 230VAC) HWS1500: 19A / 10A (115 / 230VAC)
<b>Input Harmonics</b>	IEC61000-3-2
<b>Power Factor</b>	>0.95
<b>Ripple &amp; Noise</b>	3-5V @ 120mV. 6-15V @ 150mV 24-48V @ 200mV 60V @ 400mV
<b>Load Regulation</b>	Model dependant typically $\pm 0.8\%$
<b>Line Regulation</b>	$\pm 0.4\%$ over input range
<b>Temp Coefficient</b>	0.02% per °C
<b>Over current Protection</b>	Constant current set at 105 ~ 150%, shutdown after 5 secs. Recycle AC power after >30 secs to restart.
<b>Over Voltage Protection</b>	OVP circuit will shutdown output. Recycle AC power after >30 secs to restart

<b>Hold-Up Time</b>	20 / 30ms @ 100 / 230VAC
<b>Leakage Current</b>	<1.5mA
<b>Parallel Operation</b>	YES with power share
<b>Series Operation</b>	YES
<b>Remote Sense</b>	YES
<b>Remote ON/OFF</b>	YES
<b>Monitor Signal</b>	Power Fail ( Open Collector output )
<b>Operating Temperature</b>	-10°C to +50°C at 100% load. Consult office for derating to +71°C
<b>Humidity</b>	30 ~ 90% RH operating
<b>Cooling</b>	Built-in fan
<b>Isolation Voltage</b>	Input – Output: 3000VAC Input – Ground: 2000VAC Output – Ground: 500VAC
<b>Safety</b>	UL1950, EN60950, UL508, UL50178
<b>EMI</b>	EN55011 / EN55022 Lev B
<b>Immunity</b>	EN61000-4
<b>Dimension ( W x H x D )</b>	HWS1000: 280 x 127 x 82mm 3.2kg HWS1500: 330 x 127 x 82mm 3.8kg ( Includes extending terminals )

- Output A below is at 230VAC input.

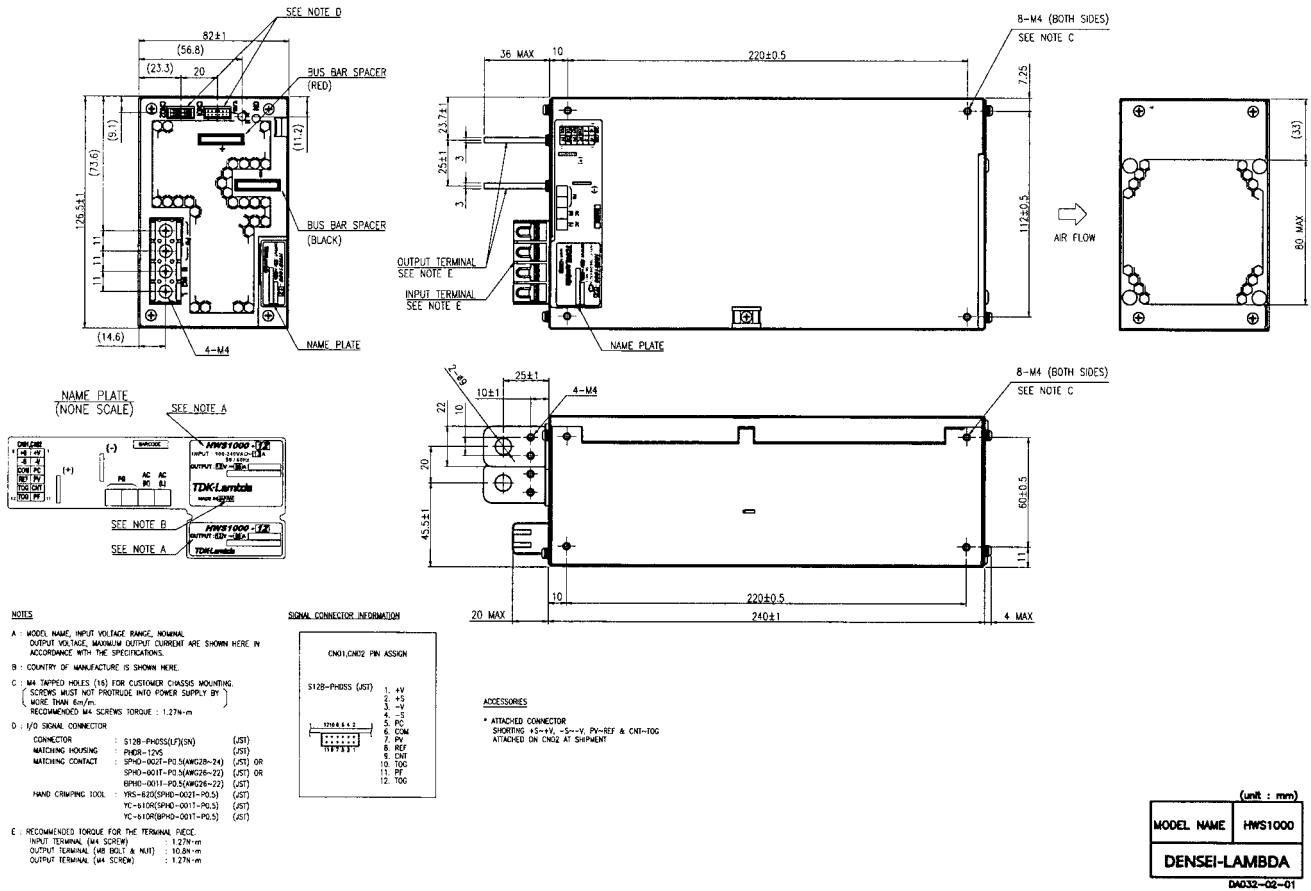
Model	Output		V Range	Power W
	V	A		
HWS1000-3	3.3V	200A	2.6 – 3.9V	660W
HWS1000-5	5V	200A	4.0 – 6.0V	1000W
HWS1000-6	6V	167A	4.8 – 7.2V	1000W
HWS1000-7	7V	134A / 160Apk	6.0 – 9.0V	1005W
HWS1000-12	12V	88A / 100Apk	9.6 – 14.4V	1056W
HWS1000-15	15V	70A / 80A pk	12.0 – 18.0V	1050W
HWS1000-24	24V	46A / 59Apk	19.2 – 28.8V	1104W
HWS1000-36	36V	30.7A / 39Apk	28.8 – 43.2V	1104W
HWS1000-48	48V	23A / 29Apk	38.4 – 52.8V	1104W
HWS1000-60	60V	18.4A / 23Apk	48.0 – 66.0V	110W4

Model	Output		V Range	Power W
	V	A		
HWS1500-3	3.3V	300A	2.64-3.96	990W
HWS1500-5	5.0V	300A	4.0-6.0V	1500W
HWS1500-6	6.0V	250A / 300A pk	4.8-7.2V	1500W
HWS1500-7	7.5V	200A / 240A pk	6.0-9.0V	1500W
HWS1500-12	12V	125A	9.6 – 14.4V	1500W
HWS1500-15	15V	100A	12.0 – 18.0V	1500W
HWS1500-24	24V	70A / 105A pk	19.2 – 28.8V	1680W
HWS1500-36	36V	46.5A / 70Apk	28.8 – 43.2V	1674W
HWS1500-48	48V	32A	38.4 – 52.8V	1536W
HWS1500-60	60V	28A / 42A pk	48.0-66.0V	1680W

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## HWS1500

