

1800W 3ph Industrial Power Supplies

Features

- ◆ Limited Lifetime Warranty
- ◆ 208VAC Three Phase Input
- ◆ High Efficiency
- ◆ SEMI F47 Compliant
- ◆ Compact Size



Key Market Segments & Applications



Specifications

Model		HWS1800
Input Voltage Range	-	208VAC, Three phase 170 - 265VAC (47 - 63Hz)
Input Current (Typical)	A	3.3V: 4.5A, 5V to 15V: 6A, 24 to 60V: 7A
Inrush Current (200VAC)	A	40A
Power Factor	-	Typically 0.94
Temperature Coefficient	-	<0.02%/°C
Overcurrent Protection	-	>105% of maximum / peak current rating
Overvoltage Protection	V	See table on page 2. Cycle input to reset or use remote on/off function
Hold Up Time (Typ)	ms	3.3V to 15V: 20ms, 24 to 60V: 18ms at 200VAC
Leakage Current (max)	mA	<2.6mA at 240VAC 60Hz
Remote Sense	-	Yes
Indicator	-	Green LED = ON
Remote on/off	-	Yes
Parallel operation	-	Single wire connection
DC Good	-	Yes
Remote Adjust (PV)	-	External voltage adjusts output voltage. See Instruction Manual
Operating Temperature	°C	-10°C to +71°C, see output derating curves, -20°C start up
Storage Temperature	°C	-30 to +85°C
Humidity (non condensing)	-	Operating: 10 - 90%RH, Non operating 10 - 95%RH
Cooling	-	Internal fan
Withstand Voltage	-	I/P to Grnd 2kVAC, I/P to O/P 3kVAC, O/P to Grnd 500VAC (1), O/P to CNT 100VAC for 1 min
Isolation Resistance	-	>100M at 25C & 70%RH, Output to Ground 500VDC
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s ² constant X, Y, Z 1 hour
Shock	-	< 196.1 m/s ²
Safety Agency Approvals	-	IEC/EN/UL/CSA 60950-1 and 62368-1, EN50178, CE Mark
Line Dip	-	Complies with SEMI F47
Conducted & Radiated EMI	-	EN55011 / EN55022-A, FCC-A, VCCI-A
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8
Weight (Typ)	g	3800
Size (WxHxD)	in	4.98 x 3.23 x 11"
Warranty	yrs	Limited lifetime warranty (See Lambda's terms & conditions)

Notes:

(1) HWS1800T-60V: 651VAC

Figure 1: Dimensions of the HW51000T-24. The figure includes three views: a top view (left), a front view (middle), and a side view (right). The top view shows a rectangular board with dimensions 126±1 mm by 200±0.5 mm. It features a 6-M4 screw hole, a 11.2 mm wide section, and a 11.2 mm wide section. The front view shows a 126±1 mm wide board with a 11.2 mm wide section, a 11.2 mm wide section, and a 11.2 mm wide section. The side view shows a 126±1 mm wide board with a 11.2 mm wide section, a 11.2 mm wide section, and a 11.2 mm wide section. The figure also includes a detail of the nameplate (bottom left) and a detail of the output terminal (bottom right).

	Voltage	Adjust	Max	Peak	Max	Peak	Load	Line	Ripple		Efficiency
Model	V	Range	Curr.	Curr.	Power	Power	Reg	Reg	Noise	Overvoltage	(typ)
		V	A	A(2)	W	W2	mV	mV(3)	mV	V	%
HWS1800T-3	3.3	2.64 - 3.96	300	-	990	-	60	36	120	4.12 - 4.62	75
HWS1800T-5	5	4 - 6	300	-	1500	-	60	36	120	6.25 - 7.0	81
HWS1800T-6	6	4.8 - 7.2	250	300	1500	1800	60	40	150	7.5 - 8.4	82
HWS1800T-7	7.5	6 - 9	200	240	1500	1800	60	40	150	9.37 - 10.5	84
HWS1800T-12	12	9.6 - 14.4	125	150	1500	1800	72	48	200	15 - 17.4	84
HWS1800T-15	15	12 - 18	100	120	1500	1800	90	60	200	18.7 - 21.8	84
HWS1800T-24	24	19.2 - 28.8	75	105	1800	2520	144	96	250	30 - 34.8	88
HWS1800T-36	36	28.8 - 43.2	50	70	1800	2520	216	144	250	45 - 49.7	88
HWS1800T-48	48	38.4 - 52.8	37.5	52.5	1800	2520	288	192	300	55.2 - 60	90
HWS1800T-60	60	48 - 66	30	42	1800	2520	360	240	400	69 - 75	90

(3) 180 - 265VAC

The graph, titled "OUTPUT DERATING CURVE", plots Load (W) on the y-axis (0 to 2000) against ambient temperature T_a (°C) on the x-axis (-10 to 80). Four curves are shown for different input voltages: 3V (dashed line), 5V (dash-dot line), 6V-15V (dotted line), and 24V-60V (solid line). The 3V, 5V, and 6V-15V curves are constant at 1400W, 1400W, and 1000W respectively from -10°C to 40°C. The 24V-60V curve is constant at 1000W from -10°C to 40°C. All curves derate linearly from 40°C to 70°C. At 70°C, the 3V, 5V, and 6V-15V curves drop to approximately 500W, while the 24V-60V curve drops to approximately 400W. All curves drop to 0W at 75°C.

T_a (°C)	3V (W)	5V (W)	6V-15V (W)	24V-60V (W)
-10	1400	1400	1000	1000
0	1400	1400	1000	1000
10	1400	1400	1000	1000
20	1400	1400	1000	1000
30	1400	1400	1000	1000
40	1400	1400	1000	1000
50	1200	1200	800	800
60	1000	1000	600	600
70	500	500	500	400
75	0	0	0	0

HWS	15W to 1500W single output, single phase
LZSA	500W to 1500W single output
SWS	50W to 1000W, low cost
DPP, DLP & DSP	10W to 960W DIN Rail mount



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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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