

## Single Output Industrial Power Supplies

### Features

- ◆ Limited Lifetime Warranty
- ◆ UL508 approved
- ◆ SEMI F47 Compliant (high line AC)
- ◆ Universal Input (85 - 265VAC)
- ◆ High Efficiency
- ◆ Wide Range AC Input



### Key Market Segments & Applications



Specifications			HWS15	HWS30	HWS50	HWS100	HWS150
Input Voltage range	-		85 - 265VAC (47 - 63Hz) or 120 - 370VDC				
Input Current (Typ)	(1) A		0.4 / 0.2	0.8 / 0.4	0.7 / 0.35	1.3 / 0.65	1.9 / 0.95
Inrush Current	(1) A		14 / 28				
Power Factor	-		Meets EN61000-3-2				
Temperature Coefficient	-		<0.02%/°C				
Overcurrent Protection	-		>104%				
Overvoltage Protection	V		Yes (See page 2)				
Hold Up Time (Typ)	ms		20				
Leakage Current (max)	mA		<0.5mA (Typ 0.3mA at 100VAC, 0.5mA at 230VAC)				
Remote Sense	-		No				Yes
Indicator	-		Green LED = ON				
Operating Temperature (no cover)	°C		-10°C to +70°C, derate linearly to 20% load from 50°C to 70°C <sup>(2)</sup>				
Storage Temperature	°C		-30 to +85°C				
Humidity (non condensing)	-		Operating: 30 - 90%RH, Non operating 10 - 95%RH				
Cooling	-		Convection				
Withstand Voltage	-		Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.				
Isolation Resistance	-		>100M at 25°C & 70%RH, Output to Ground 500VDC				
Vibration (non operating)	-		10 - 55Hz (1 minute sweep), 19.6m/s <sup>2</sup> constant X, Y, Z 1 hour				
Shock	-		< 196.1m/s <sup>2</sup>				
Safety Agency Certifications	-		UL60950-1, CSA60950-1, EN60950-1, EN50178, UL508, CE Mark <sup>(3)</sup>				
Line Dip	-		Complies with SEMI F47 (200VAC line only)				
Conducted & Radiated EMI	-		EN55011 / EN55022-B, FCC-B, VCCI-B				
Recommended EMI Filter	-		RSEL-2001W			RSEL-2002W	RSEL-2003W
Immunity	-		IEC61000-4-2 (Level 3,2), -3, -4, -5, -6 (Level 3), -8, -11 (Level 4)				
Weight (Typ)	g		180	220	280	450	500
Size (WxHxD)	in		1.04x3.23x3.15	1.04x3.23x3.74	1.04x3.23x4.72	1.1x3.23x6.3	1.46x3.23x6.3
Size (WxHxD) /A version			1.24x3.23x3.15	1.24x3.23x3.74	1.24x3.23x4.72	1.3x3.23x6.3	1.65x3.23x6.3
Warranty	yrs		Limited lifetime warranty (See Lambda's terms & conditions)				

(1) 100/200VAC

(2) -40°C Start up, see options table

(3) UL60601-1, EN60601-1, see options table

# OBSOLETE

