



HWS Series

Single Output Industrial Power Supplies

- Lifetime Warranty
- UL508 approved
- SEMI F47 Compliant (high line AC)
- Universal Input (85 - 265VAC)
- High Efficiency
- RoHS Compliant Design

Key Market Segments & Applications

Factory Automation

Process Control, NC-Machining,
Automotive, Packaging Equipment,
Materials Handling,
Chemical Processing, Robots
Burn-in & Test, Automated
Test, Instrumentation,
Measurement, Detection

Test & Measurement
Automated Service

HWS Features and Benefits

Features

- Lifetime Warranty
- High Efficiency
- Wide Range AC Input

Benefits

- Lower Cost of Ownership
- Easier System Cooling
- Supports Global Use

Specifications

MODELS						
ITEMS		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 100/200VAC	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 Temp. (no cover)		-10C to +70C, derate linearly to 20% load from 50C to 70C				
Storage Temperature		-30 to +85C				
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 25C & 70%RH, Output to Ground 500VDC				
Vibration (non operating)		10 - 55Hz (1 minute sweep), 19.6m/s² constant X, Y, Z 1 hour				
Shock		< 196.1m/s²				
Safety Agency Approvals		-UL60950-1, CSA60950-1, EN60950-1, EN50178, Built to meet UL508 CE Mark				
Line Dip		Complies with SEMI F47 (200VAC line only)				
Conducted & Radiated	EMI	EN55011 / EN55022-B, FCC-B, VCCI-B				
Immunity		IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 4), -5(Level 3,4), -6(Level 3), -8(Level4, -11				
Weight (Typ)	g	180	220	280	450	500
Size (WxHxD)	mm	26.5x82x80	26.5x82x95	26.5x82x120	28x82x160	37x82x160
Warranty		Lifetime Warranty (See Lambda's terms & conditions)				

Notes: (1) 100/200VAC

See website for HWS/ME medical EN/UL60601-1 approved models
and HWS/HD heavy duty / harsh environment models with -40 degree C startup

Model Selector

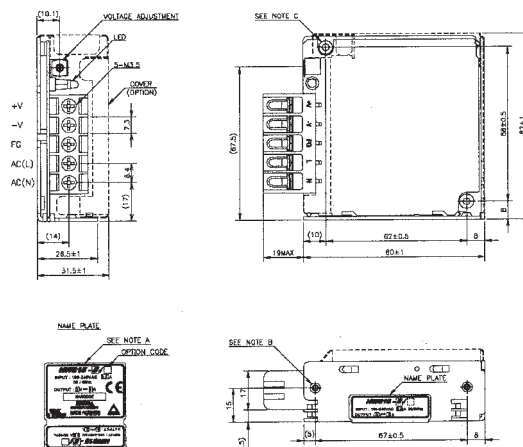
Model	Voltage	Adjust Range	Max Curr. A	Load Reg mV	Line Reg mV	Ripple Noise mV	Over voltage V	Eff. typ % 100/200 VAC
HWS15-3/A	3.3V	2.97 - 3.96	3	40	20	120	4.13-4.95	68/71
HWS30-3/A	3.3V	2.97 - 3.96	6	40	20	120	4.13-4.95	70/73
HWS50-3/A	3.3V	2.97 - 3.96	10	40	20	120	4.13-4.95	76/78
HWS100-3/A	3.3V	2.97 - 3.96	20	40	20	120	4.13-4.95	78/81
HWS150-3/A	3.3V	2.97 - 3.96	30	40	20	120	4.13-4.95	78/81
HWS15-5/A	5V	4.0 - 6.0	3	40	20	120	6.25-7.25	77/79
HWS30-5/A	5V	4.0 - 6.0	6	40	20	120	6.25-7.25	77/80
HWS50-5/A	5V	4.0 - 6.0	10	40	20	120	6.25-7.25	82/83
HWS100-5/A	5V	4.0 - 6.0	20	40	20	120	6.25-7.25	83/86
HWS150-5/A	5V	4.0 - 6.0	30	40	20	120	6.25-7.25	83/86
HWS15-12/A	12V	9.6 - 14.4	1.3	96	48	150	15-17.4	80/81
HWS30-12/A	12V	9.6 - 14.4	2.5	96	48	150	15-17.4	81/83
HWS50-12/A	12V	9.6 - 14.4	4.3	96	48	150	15-17.4	81/83
HWS100-12/A	12V	9.6 - 14.4	8.5	96	48	150	15-17.4	83/86
HWS150-12/A	12V	9.6 - 14.4	13	96	48	150	15-17.4	83/86
HWS15-15/A	15V	12.0 - 18.0	1	120	60	150	18.8-21.8	80/81
HWS30-15/A	15V	12.0 - 18.0	2	120	60	150	18.8-21.8	81/83
HWS50-15/A	15V	12.0 - 18.0	3.5	120	60	150	18.8-21.8	81/83
HWS100-15/A	15V	12.0 - 18.0	7	120	60	150	18.8-21.8	83/86
HWS150-15/A	15V	12.0 - 18.0	10	120	60	150	18.8-21.8	83/86
HWS15-24/A	24V	19.2 - 28.8	0.65	192	96	200	30-34.8	82/83
HWS30-24/A	24V	19.2 - 28.8	1.3	192	96	200	30-34.8	83/86
HWS50-24/A	24V	19.2 - 28.8	2.2	192	96	200	30-34.8	82/84
HWS100-24/A	24V	19.2 - 28.8	4.5	192	96	200	30-34.8	84/87
HWS150-24/A	24V	19.2 - 28.8	6.5	192	96	200	30-34.8	85/88
HWS15-48/A	48V	38.4 - 52.8	0.33	384	192	200	55.2-64.8	80/80
HWS30-48/A	48V	38.4 - 52.8	0.65	384	192	200	55.2-64.8	82/83
HWS50-48/A	48V	38.4 - 52.8	1.1	384	192	200	55.2-64.8	83/85
HWS100-48/A	48V	38.4 - 52.8	2.1	384	192	200	55.2-64.8	84/87
HWS150-48/A	48V	38.4 - 52.8	3.3	384	192	200	55.2-64.8	85/88

Options

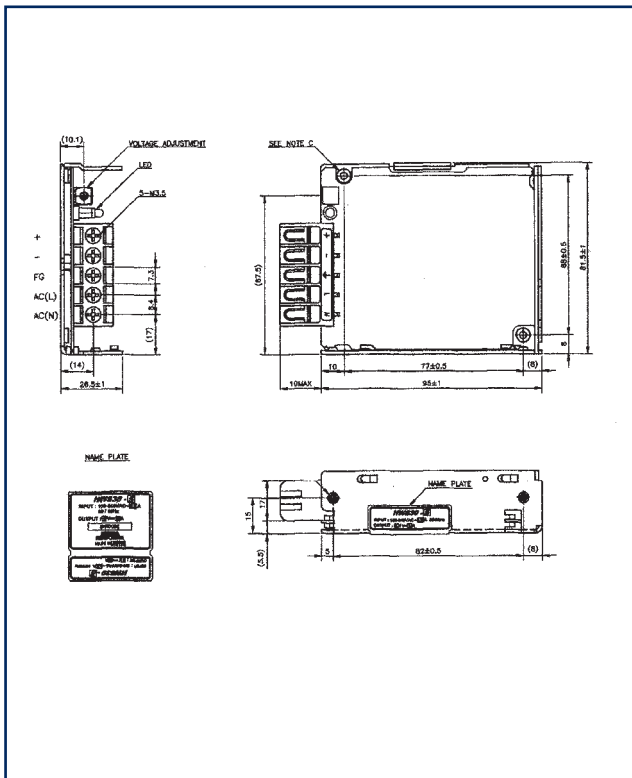
Suffix	Description
Blank	Screw terminals, no cover
/A	Screw terminals, cover
/R	Remote on/off (50-150W only) Example: HWS50-24/RA

Full size drawings and more information available at www.lambda-europe.com/hws

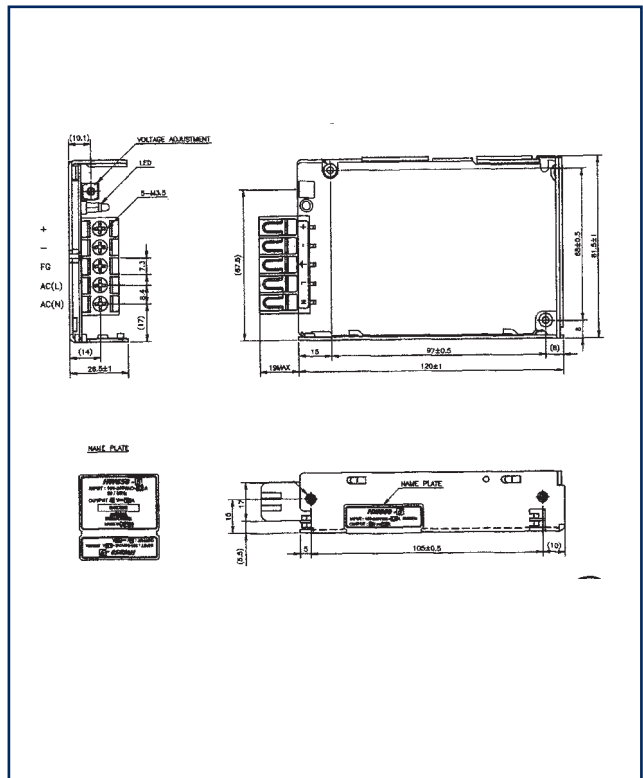
HWS15 Outline Drawing



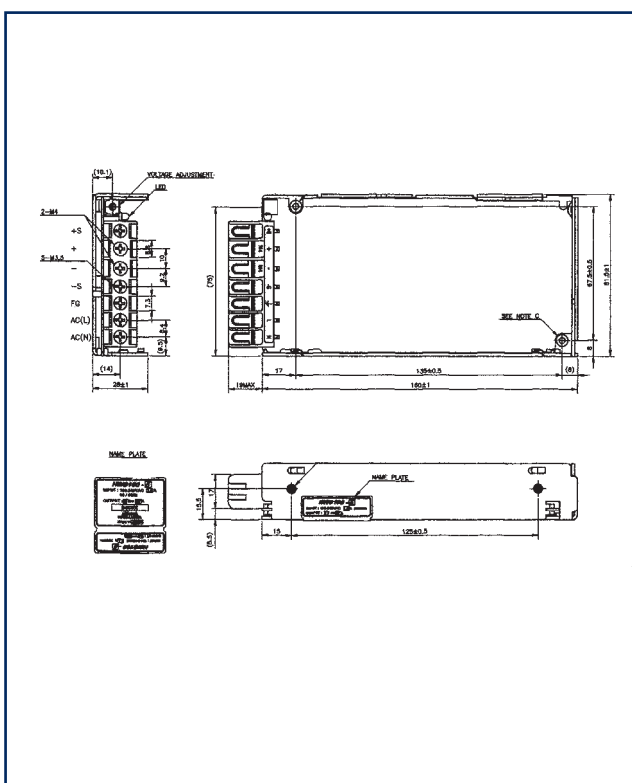
HWS30 Outline Drawing



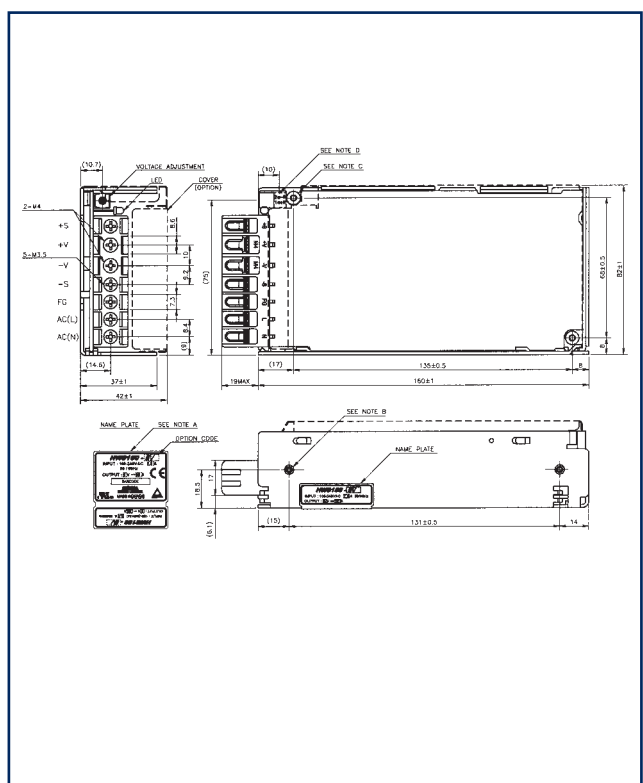
HWS50 Outline Drawing



HWS100 Outline Drawing



HWS150 Outline Drawing



Note: All fixing holes M3 tapped max. depth 6mm

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