WLP350 Industrial



Features

- 5 x 3 x 1 Inches Form factor
- 350 Watts with Forced Air Cooling & 200 Watts Convection Cooling
- Efficiencies upto 94%
- -40 to 70 degree operating temperature*
- 12V / 0.5A Fan Output, Thermal Shut-Down feature
- 2.56m Hours, Telcordia -SR332-issue 3 MTBF
- No Load Power < 0.5W
- Approved to EN60950-1 2nd Edition

Electrical Specifications					
Input Voltage	90-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 90% at 90V AC)				
Input Frequency	47–63 Hz				
Input Current	115 VAC: 3.6 A max. 230 VAC: 1.8 A max.				
No Load Power	less than 0.5W typical				
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A				
Leakage Current	300 uA Typical				
Efficiency	94%(48V,58V), 93%(24V,30V), 92%(12V,15V)				
Hold-up Time	Full Load > 8 ms typical Convection Load > 14 ms typical				
Power Factor	exceeds 0.95 with Full Load				
Output Power	upto 350W with 375 LFM, upto 200W Convection				
Output Voltage Adjustability	+/-3%				
Line Regulation	+/-0.5%				
Load Regulation	+/-1%				
Transient Response	50-100% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=5% ,				
	recovery time < 5 ms				
Rise Time	55 ms typical				
Set Point Tolerance	+/-1%				
Over Current Protection	>110% ,Hiccup mode / Auto Recovery				
Over Voltage Protection	110 to 140% , Hiccup mode / Auto Recovery				
Short Circuit Protection	Hiccup mode / Auto Recovery				
Switching Frequency	PFC – 70 to 130 KHz ,PWM – 50-80 KHz				
Operating Temperature	-40 to +70°C, $*$ -40 to 0°C startup is guaranteed with spec deviation (ref note 6)				
Storage Temperature	-40 to +85°C				
Relative Humidity	5% to 95%, noncondensing				
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.				
MTBF	2.56m Hours, Telcordia -SR332-issue 3				
Isolation Voltage	Input to Output – 3000V AC for ITE application				
	Input to GND - 1500 VAC				
Cooling	350W with 375 LFM forced air cooling at 100 to 264VAC				
	200W with natural convection cooling at 100 to 264VAC.				

Model Number	Description	Voltage	Max. Load (Convection)	Max. Load (375 LFM)	Min. Load	Ripple ¹
LFWLP350-1001	with Screw Terminal	12V	15A	25A	0.0A	1%
LFWLP350-13017	with Molex Connector	12V	15A	18.75A	0.0A	1%
LFWLP350-1002	with Screw Terminal	15V	12A	21.67A	0.0A	1%
LFWLP350-13027	with Molex Connector	15V	12A	18A	0.0A	1%
LFWLP350-1003	with Screw Terminal	24V	8.33A	14.60A	0.0A	1%
LFWLP350-1303	with Molex Connector	24V	8.33A	14.60A	0.0A	1%
LFWLP350-1004	with Screw Terminal	48V	4.17A	7.30A	0.0A	1%
LFWLP350-1304	with Molex Connector	48V	4.17A	7.30A	0.0A	1%
LFWLP350-1005	with Screw Terminal	30V	6.67A	11.67A	0.0A	1%
LFWLP350-1305	with Molex Connector	30V	6.67A	11.67A	0.0A	1%
LFWLP350-1006	with Screw Terminal	58V	3.45A	6.04A	0.04	1%
LFWLP350-1306	with Molex Connector	58V	3.45A	6.04A	0.0A	1%
LFWLP350-CK metal co	ver kit accessory					

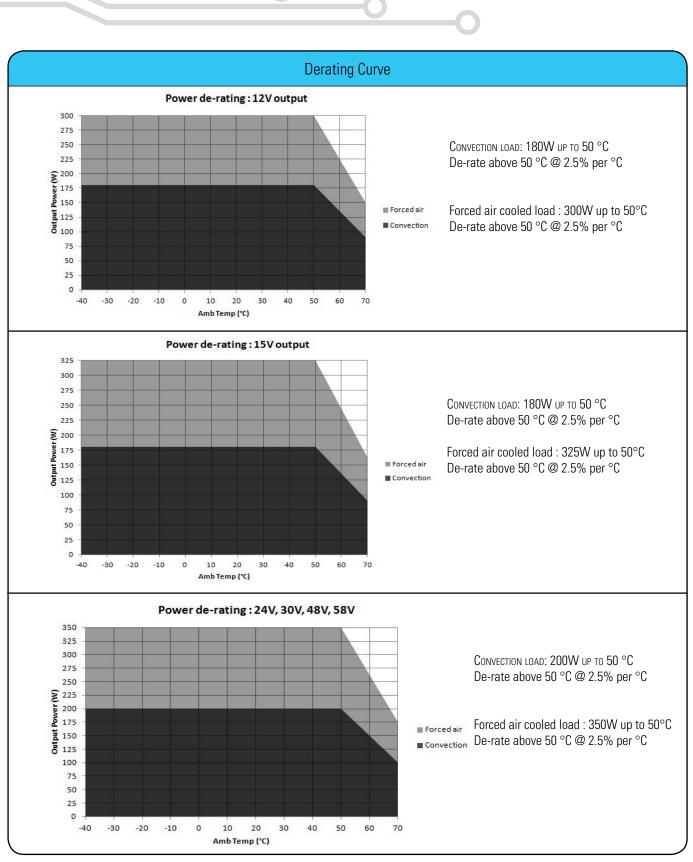
	Connecto	rs	
J1	Pin 1	AC LINE	
	Pin 2	NOT FITTED	
	Pin 3	AC NEUTRAL	
J2 Option 1	Pin 1	V1 +VE	
(Screw Terminal)	Pin 2	V1 -VE	
J2 Option 2	Pin 1,2,3,4	V1 +VE	
(Molex Connector)	Pin 5,6,7,8	V1 -VE	
J3	Pin 1	FAN +VE	
	Pin 2	FAN -VE	

Notes

- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μF (Electrolytic capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 2. Combined output power of main output, fan supply shall not exceed max. Power rating.
- 3. Fan supply output voltage tolerance including set point accuracy, line and load regulation is +/-10% and Ripple and noise is less than 10%.
- 4. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 5. Thermal shutdown feature : The power supply goes in hiccup mode when the temperature of PCB exceeds 110 °C (+/-10 °C).
- 6. Output ripple can be more than 10% of the output voltage.
- 7. Models LFWLP350-1301 and LFWLP350-1302 do not have CCC approval
- 8. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.
- 9. Class II version available.Add "-II" suffix at the end of the Model Number to Order



	Mechanical Specifications	3		
AC Input Connector (J1)	Molex: 26-60-4030			
	Mating: 09-50-3031; Pins: 08-50-0106			
Earth (J4)	Molex: 19705-4301			
	Mating: 19003-0001			
DC Output Connector (J2) Option 1	6-32 inches Screw Pan HD			
(Screw Terminal)	Mating: Designed to accept Ring Tongue Terminal AMP : 8-31886-1,			
	wherein one 16 AWG(max) wire can be crimped.			
	Note : One Ring Tongue Terminal with 16 AWG is recommended for current upto 11A on			
	Use multiple tongue terminals with wire for more current.			
DC Output Connector (J2) Option 2	Molex: 26-60-4080			
(Molex Connector)	Mating: 09-50-3081; Pins: 08-50-0106			
Aux (Fan) Output(J3)	AMP :640456-2			
	Mating: 640440-2			
Dimensions	5 x 3 x 1 inches			
	(127 x 76.2x 25.4 mm)			
Weight	300 gm approx			
	EMC			
Parameter	Conditions/Description	Criteria		
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass		
Radiated Emissions	EN 55032 A	Pass		
		Level B with external core (King core K5B RC		
		25x12x15-M in input cable)		
Input Current Harmonics	EN 61000-3-2	Class D		
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass		
ESD Immunity	EN 61000-4-2	Level 3, Criterion A		
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A		
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A		
Surge Immunity	EN 61000-4-5	Level 4, Criterion A		
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A		
Magnetic Field Immunity	EN 61000-4-8	Level 3, Criterion A		
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B		
	Safety			
CE Mark	Complies with LVD Directive			
Approval Agency	Nemko, UL, C-UL, CCC			
Safety Standard(s)	EN60950-1, IEC60950-1 (ed.2), UL 60950 (ed.2), CSA C22.2 No.60950-1 (ed.2), Class1 SELV , GB4943. 1-2011 ; GB9254-2008 ; GB17625. 1-2012			
Safety File Number(s)	Class-I : UL: Certificate Number 20150122-E150565,Nemko: Certificate No. P15219422, CB Certificate No.: N085161			
	Class-II : Nemko: Certificate No. P152194			



Derating Curve Note : Between -40 to 0°C startup is guaranteed with spec deviation (ref note 6)



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