

LPS350 Series

350 Watts

Data Sheet

Total Power: 350 Watts **Input Voltage:** 85-264 Vac 120 - 300 Vdc

of Outputs: Single

SPECIAL FEATURES

- Active power factor correction
- IEC EN61000-3-2 compliance
- Remote sense on
- Power fail and remote inhibit
- Single wire current sharing
- Built-in EMI filter
- Adjustable floating 4th output
- 2 Supervisory output 5 V and 12 V
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- 130 KHz switching frequency
- Optional with fan cover -CF
- Cover -C
- Optional end-mounted fan -CEF

SAFETY

VDE 0805/EN60950 (IEC950)

21310-3336-0001

UL UL1950 El86249

CSA CSA 22.2-234 Level 5

LR109492C

NEMKO EN 60950/EMKO-TUE

P98102115 (74-sec) 203

BABT EN60950/BS7002 608857,

608858, 609097

CB Certificate and report

5734, 6280, 6281

CE Mark (LVD)



Electrical Specifications				
Input				
Input range	85 - 264 VAC; 120 - 300 VDC			
Frequency	47 - 440 Hz			
Inrush current	38 A max, cold start @ 25 °C			
Efficiency	75% typical at full load			
EMI filter	FCC Class B conducted and radiated CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated VDE 0878 PT3 Class B conducted and radiated			
Power factor	0.99 typical			
Safety ground leakage current	0.5 mA @ 50/60 Hz, 264 VAC input			
Output				
Maximum power	With cover: 350 W with 30 CFM forced air, (-C) (-CF) (-CEF)			
Adjustment range	2:1 wide ratio			
Supervisory output	5 V @ 500 mA regulated, 12 @ 150 mA x2			
Hold-up time	20 ms @ 350 W load, 115 VAC nominal line at factory voltage settings			
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110 - 145% above peak rating			
Overvoltage protection	5 V output: 5.7 - 6.7 VDC. Other models 10% to 25% above nominal output			



Electrical Specifications			
Logic Control			
Power failure	TTL logic signal goes high 50 - 150 msec after 5 V output. It goes low at least 4 msec before loss of regulation		
Remote on/off	Requires an external contact (N.O or N.C) to inhibit outputs		
DC-OK	TTL logic goes high 50 - 150 msec after 5 V output. It goes low when there is loss of regulation		
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected		

Environmental Specifications			
Operating temperature	0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70 °C		
Storage temperature	-40 °C to +85 °C		
Temperature coefficient	± 0.4% per °C		
Electromagnetic susceptibility	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3		
Humidity	Operating; non-condensing 5% to 95%		
Vibration	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.7 G peak 5Hz to 500Hz, operational		
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions		

Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³	
LPS352-C	5 V (3 - 6 V)	0 A	70 A	80 A	± 2%	50 mV	
LPS353-C	12 V (6 - 12 V)	0 A	29.2 A	33 A	± 2%	120 mV	
LPS354-C	15 V (12 - 24 V)	0 A	23.3 A	26 A	± 2%	150 mV	
LPS355-C	24 V (24 - 48 V)	0 A	14.6 A	16 A	± 2%	240 mV	

- 1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
- 2. At 25 $^{\circ}$ C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 4. 4th output 3.3 24 V factory set at 5 V. If optional CF or CEF fans are not used, 30CFM forced air cooling needs to be provided and is required through the length of the power supply. Not convection rated.
- 5. Output voltage adjustment requires a 1A load.
- 6. Remote inhibit resets OVP latch.

Note: -CF suffix added to the model number indicates cover with fan,

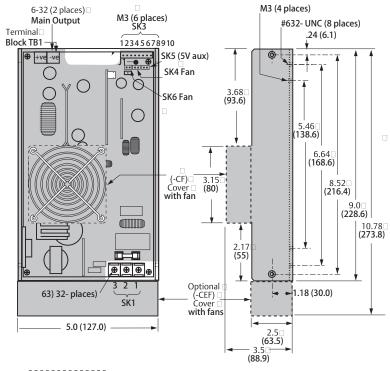
-CEF suffix added to model number indicates end-mounted fan chassis.

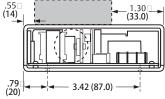
Pin Assignments					
SK1	PIN 1 Neutral				
	PIN 2	Line			
	PIN 3	Ground			
SK3	PIN 1	N/C			
	PIN 2	N/C			
	PIN 3	+ Sense			
	PIN 4	- Sense			
	PIN 5	POK			
	PIN 6	C. Share			
	PIN 7	DC - OK			
	PIN 8	Inhibit (N.O.)			
	PIN 9	Inhibit (N.C.)			
	PIN 10	COM			
SK4	PIN 1	+ Fan 1 (12V@150mA)			
	PIN 2	- Common			
SK5	PIN 1	+ 5V aux (5V@100mA)			
	PIN 2	- Common			
SK6	PIN 1	+ Fan 2 (12V@150mA)			
	PIN 2 – Common				
Mating	g Connectors				
SK3	Molex: 22-01-1104				
	PINS: 08-70-0057				
SK4	Molex 22-01-3027				
	PINS: 08-50-0114				
SK5	Molex: 22-01-3027				
	PINS: 08-50-0114				
SK6	Molex: 22-01-3027				

Astec Connector Kit #70-841-011, includes all of the above.

PINS: 08-50-0114

Mechanical Drawing





Notes:

1. Specifications subject to change without notice.

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- 2. All dimensions in inches (mm), tolerance is \pm .02".
- 3. Specifications are at factory settings
- 4. To enable normally closed Remote Inhibit, cut jumper J1.
- 5. Mounting maximum insertion depth is 0.12".
- 6. Warranty: 2 year
- 7. Weight: 3.6 lb. / 1.64 kg.

WORLDWIDE OFFICES

Americas

2900 South Diablo Way Suite B100 Tempe, AZ 85282, USA +1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House 4 Harbour Buildings, Waterfront West Brierley Hill, West Midlands DY5 1LN, UK +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong +852 2176 3333



www.artesyn.com

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com