

# **Excellent Integrated System Limited**

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Artesyn Embedded Technologies LPS255-CE

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of Artesyn Embedded Technologies: Excellent Integrated System Limited** Datasheet of LPS255-CF - AC/DC CONVERTER 24V 250W Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

# 250 Watts LPS250 Series



#### Total Power: 250 Watts Input Voltage: 85-264 VAC 120-300 VDC # of Outputs: Single

### **Electrical Specs**

*Input* Input range Frequency Inrush current Efficiency EMI filter

Power factor Safety ground leakage current

Output Maximum power

Adjustment range Supervisory output

Hold-up time

Overload protection

Overvoltage protection

#### Logic Control

Power failure

Remote on/off

DC OK

Remote sense

85-264 VAC; 120-300 VDC 47-440 Hz 20 A max., cold start @ 25°C 75% typical at full load 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 0.99 typical

<0.5 mA @ 50/60 Hz, 264 VAC input

With cover: 250 W with 30 CFM forced air. (-C) (-CF) (CEF) 2:1 wide ratio 5 V @ 100 mA regulated; 12V @ 500 mA 20 ms @ 250 W load, 115 VAC nominal line at factory voltage setting Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 5 V output: 5.7 to 6.7 VDC. Other models 10% to 25% above nominal output

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

Asia (HK): 852-2437-9662



## **Special Features**

- Active power factor correction
- IEC EN6100-3-2 compliance
- Remote sense & remote inhibit
- Power fail
- Single wire current sharing
- Built-in EMI filter
- Low output ripple
- 2 Supervisory outputs 5 V and 12 V
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- Cover -C
- 120 kHz switching frequency
- Optional top with fan cover -CF
- Optional end fan cover -CEF

# Environmental

Operating temperature: 0° to 50°C ambient derate each output at 2.5% per degree from 50° to 70°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 5 Hz to 500 Hz, operational

Storage temperature: -40° to 85°C

Temperature coefficient: ±.04% per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditionsation



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# Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
LPS252-C	5 V (3-6 V)	1.50 A	50 A	60 A	±2%	50 mV
LPS253-C	12 V (6-12 V)	0.63 A	21 A	25 A	±2%	120 mV
LPS254-C	15 V (12-24 V)	0.50 A	16.7 A	20 A	±2%	150 mV
LPS255-C	24 V (24-48 V)	0.32 A	10.4 A	12.5 A	±2%	240 mV

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.

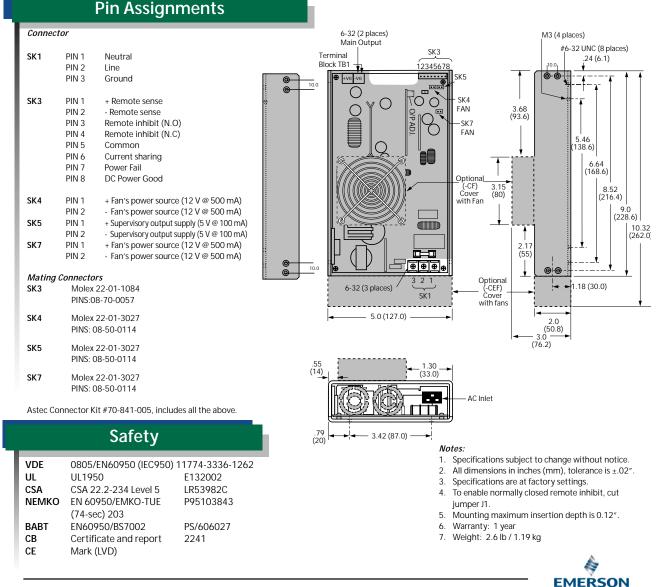
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

3. Peak-to-peak with 20 MHz bandwidth and  $10 \,\mu$ F in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.

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.
Output voltage adjustment requires a minimum load.

6. Remote inhibit resets OVP ;atch

Note: -CF suffix added to the model number indicates cover with top fan. -CEF suffix added to the model number indicates cover with dual end mounted fan cover and AC inlet.



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