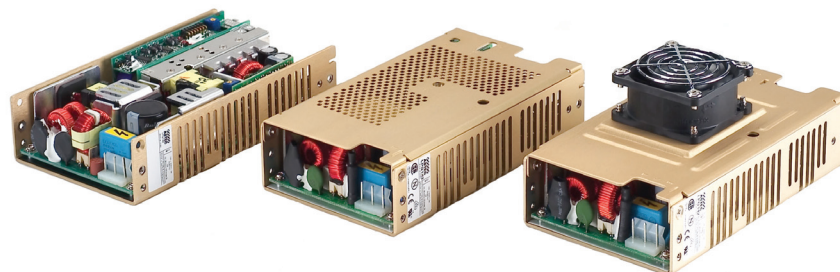


LPQ142 Series

145 Watts

Total Power: 110 - 145 Watts
Input Voltage: 85-264 VAC
120-300 VDC
of Outputs: Quad



Electrical Specifications

Input

| | |
|--------------------------------|--|
| Input range: | 85-264 VAC; 120-300 VDC |
| Frequency: | 47-67 Hz |
| Inrush current: | 38 A max, cold start @ 25°C |
| Efficiency: | 75% typical at full load |
| EMI filter: | Meets FCC Class B conducted CISPR 22 Class B conducted EN55022 Class B conducted VDE 0878 PT3 Class B conducted |
| Power Factor: | 0.99 typical |
| Safety ground leakage current: | 1.0 mA @ 50/60 Hz, 264 VAC input |

Output

| | |
|-------------------------|---|
| Maximum power: | 80 W convection (60 W with cover -C) 145 W with 30 CFM forced air (100 W with cover -C) |
| Adjustment range: | 3.3 - 5.5V on main; -12 - 15V on 3rd output 3.3 - 25 V on 4th output |
| Hold-up time: | 20 ms @175 W load at nominal line |
| Overload protection: | Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating |
| Overvoltage protection: | Tracks outputs 1, 3 & 4; 10 to 35% |

Special Features

- Active power factor correction
- IEC EN61000-3-2 compliance
- Adjustable outputs on 1, 3 & 4
- Remote sense on main output
- Single wire current sharing
- Power fail and remote inhibit
- Built-in EMI filter
- Low output ripple
- Overvoltage protection
- Overload protection
- Thermal overload protection
- Adjustable floating 4th output
- Optional cover (-C suffix)
- Optional fan cover (-CF suffix)

Safety

- **VDE** 60950
- **UL** 60950
- **CB** Certificate and report
- **CSA** 60950
- **CE** Mark (LVD)
- **NEMKO** EN 60950/EMKO-TUE



Logic Control

| | |
|-------------------|--|
| AC power failure: | TTL logic signal goes high 100 - 500 msec after V1 output; It goes low at least 4 msec before loss of regulation |
| Remote inhibit: | Requires contact closure to inhibit outputs |
| Remote sense: | Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. |
| DC - OK: | TTL logic signal goes high after main output is in regulation. It goes low when there is a loss of regulation |

Environmental Specifications

| | |
|---------------------------------|---|
| Operating temperature: | 0° to 50 °C ambient. Derate each output 2.5% per degree from 50° to 70 °C (except for -C version). |
| Storage temperature: | -40 °C to +85 °C |
| Temperature coefficient: | ±0.4% per °C |
| Electromagnetic susceptibility: | Designed to meet IE61000-4, -2, -3, -4, -5, -6, -8, -11, 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 0.75G 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 Cooling | Maximum Load with 30CFM Forced Air | Peak Load ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|-------------------|--------------|--------------------------------------|------------------------------------|------------------------|-------------------------|--------------------------------|
| LPQ142 | 5 V (3.3 - 5.5 V) | 0 A | 12 A | 25 A | 27 A | ±2% | 50 mV |
| | 12 V | 0 A | 5 A | 6 A | 9 A | ±3% | 120 mV |
| | -12V (-12 -15 V) | 0 A | 1 A | 1.5 A | 2 A | ±3% | <1% |
| | ±3.3-25 V | 0.5 A | 1.5 A | 4.5 A | 5 A | ±3% | <50mV or 1% |

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 µF in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. 4th output adjustable 3.3-25 V factory set at 5 V.
5. *Minimum loads are required when output set below 5 Volts
6. Remote inhibit resets OVP latch

Note: -C suffix added to the model number indicates cover option.
-CF suffix added to the model number indicates fan cover option.

Pin Assignments

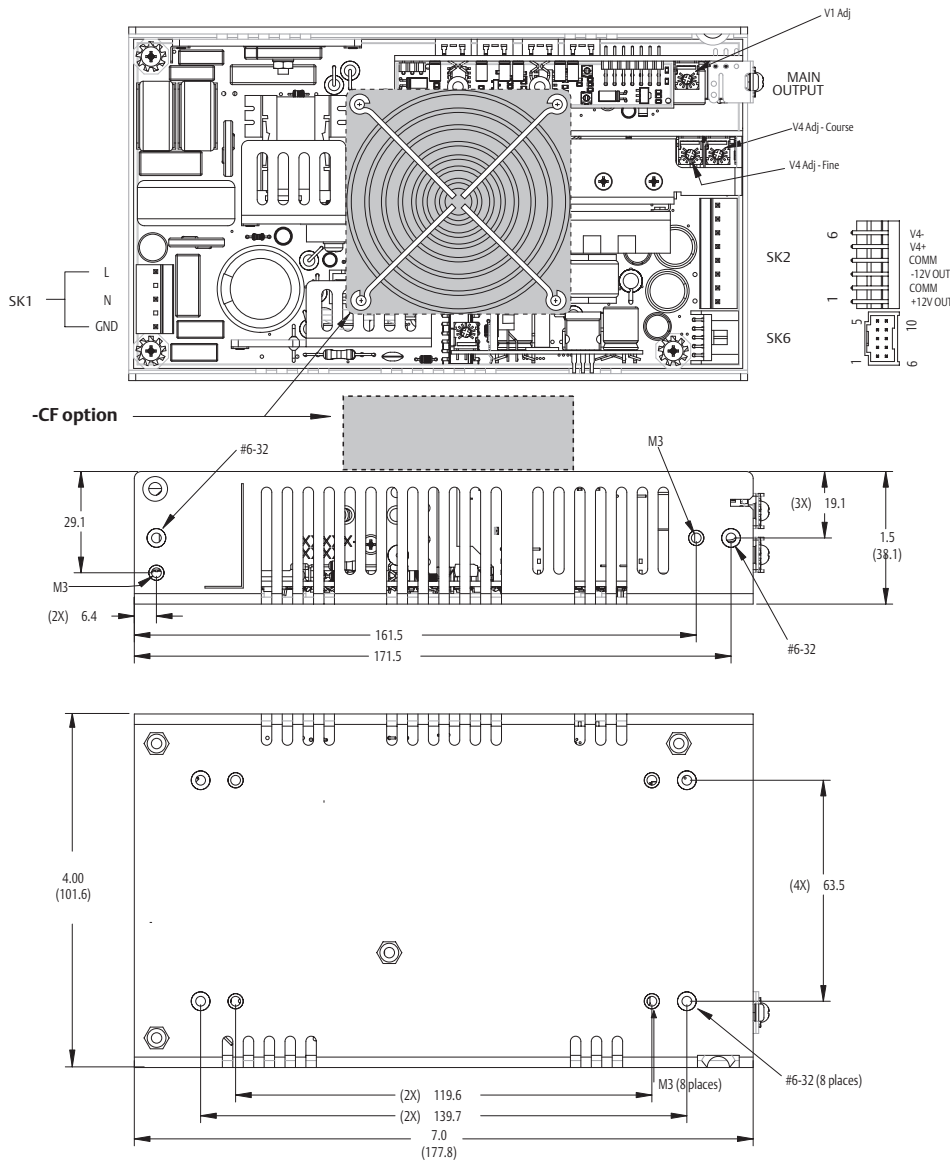
| | | |
|-----|--------|-----------------------|
| SK1 | PIN 1 | Ground |
| | PIN 3 | Neutral |
| | PIN 5 | Line |
| SK2 | PIN 1 | +12 V |
| | PIN 2 | Common |
| | PIN 3 | -12 V |
| | PIN 4 | Common |
| | PIN 5 | +5 V to +25 V (float) |
| | PIN 6 | Common (float) |
| SK4 | TB-1 | Common |
| | TB-2 | +5 V |
| SK6 | PIN 1 | N/C |
| | PIN 2 | DC OK |
| | PIN 3 | N/C |
| | PIN 4 | V1 SWP |
| | PIN 5 | Common |
| | PIN 6 | +V1 sense |
| | PIN 7 | Sense common |
| | PIN 8 | + inhibit |
| | PIN 9 | - inhibit |
| | PIN 10 | Power fail |

Mating Connectors

| | |
|------------------------|--|
| (SK1) AC Input: | Molex 09-50-8051 (USA) Molex 09-91-0500 (UK) PINS: 08-58-0111 |
| (SK2) Aux DC Output: | Molex 09-50-8061 (USA) Molex 09-91-0600 (UK) PINS: 08-58-0111 |
| (SK6) Control Signals: | Molex 90142-0010 (USA) PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8 |
| (SK4) Main output: | Molex BB-19141-0058 |

Emerson Network Power connector kit #70-841-017, includes all of the above.

Mechanical Drawing



Notes:

- Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ± 0.02 ".
- Specifications are for convection rating at factory settings unless otherwise stated.
- Mounting screw maximum insertion depth is 0.12".
- Warranty: 2 year
- Weight: 1.63 lb / 0.74 kg

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