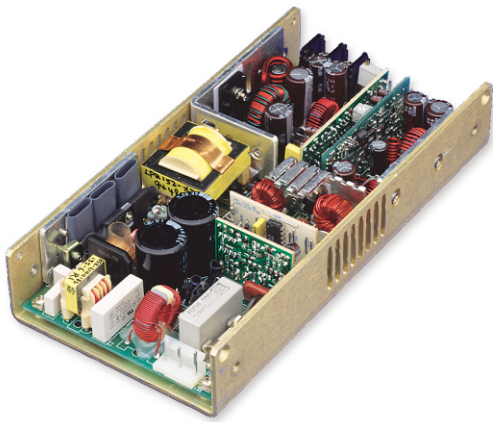


150 Watts LPQ150 Series

Total Power: 110-150 Watts
Input Voltage: 85-132 / 170-264 VAC
 220-300 VDC
of Outputs: Quad



Special Features

- Auto ranging input
- Remote sense on main output
- Remote inhibit
- Single wire current sharing
- Power fail
- Built-in EMI filter
- Low output ripple
- 135 khz switching frequency
- Overvoltage protection
- Overload protection
- Adjustable floating 4th output (On LPQ152 and LPQ153 models)
- Optional cover (-C suffix). See page 64.

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
 0.75 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 condition

Electrical Specs

Input

| | |
|----------------------------------|--|
| Input range | 85-132 VAC or 170-264 VAC automati- cally selected. 220-300 VDC |
| Frequency | 47-63 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 |
| Safety ground leakage current | 0.5 mA @ 50/60 Hz, 264 VAC input |

Output

| | |
|------------------------|---|
| Maximum power | 110 W convection (75 W with cover) 150 W with 30 CFM forced air (130 W with cover) |
| Adjustment range | ±5% on main; 5-25 V on 4th output on LPQ 152 & LPQ 153 |
| Cross regulation | ±2% on output 1; ±3% on outputs 2, 3 & 4 |
| Hold-up time | 20 ms @110 W load at nominal line |
| Overload protection | Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating |
| Overvoltage protection | 5.7-6.7 VDC on main output |

Logic Control

| | |
|----------------|--|
| Power failure | TTL logic signal goes high 50-150 msec after 5 V output. It goes low at least 3 msec before loss of regulation |
| Remote inhibit | Requires an external TTL high signal to inhibit outputs |
| Remote sense | Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. |

Safety

| | | |
|--------------|-----------------------------------|-----------------------------|
| VDE | 0805/EN60950 (IEC950) | 11774-3336-1260 (LC# 88585) |
| UL | UL1950 | EI32002 |
| CSA | CSA 22.2-234 Level 3 | LR53982 |
| NEMKO | EN 60950/EMKO-TUE (74-sec) 203 | P95102999 |
| CB | Certificate and report | 2061 |
| CE | Mark (LVD) | |

rev 12.10.03

AMERICAS

5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 44 (1384) 842-211
Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
Tower 1, Metroplaza
223, Hing Fong Road
Fwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with Convection Cooling | Maximum Load with 30 CFM Forced Air | Peak Load ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|----------------|--------------|--------------------------------------|-------------------------------------|------------------------|-------------------------|--------------------------------|
| LPQ152 | 5 V | 2 A | 15 A | 22 A | 30 A | ±2% | 50 mV |
| | 12 V | .1 A | 6 A | 8 A | 10 A | ±3% | 120 mV |
| | -12 V | .1 A | 2 A | 2.5 A | 3 A | ±3% | 120 mV |
| | ±5-25 V | 0 A | 2.5 A | 3 A | 3 A | ±3% | 240 mV, max. |
| LPQ153 | 5 V | 2 A | 15 A | 22 A | 30 A | ±2% | 50 mV |
| | 15 V | .1 A | 4.8 A | 6.4 A | 8 A | ±3% | 150 mV |
| | -15 V | .1 A | 1.6 A | 2 A | 2.4 A | ±3% | 150 mV |
| | ±5-25 V | 0 A | 2.5 A | 3 A | 3 A | ±3% | 240 mV, max. |
| LPQ154 | 5 V | 2 A | 15 A | 22 A | 30 A | ±2% | 50 mV |
| | 12 V | .1 A | 6 A | 8 A | 10 A | ±3% | 120 mV |
| | -12 V | .1 A | 2 A | 2.5 A | 3 A | ±3% | 120 mV |
| | 24 V | .5 A | 3.5 A | 4.5 A | 5 A | +10 / -5% | 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 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
4. 4th output adjustable 5-25 V factory set at 5 V.
5. Minimum loads are required.

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

Pin Assignments

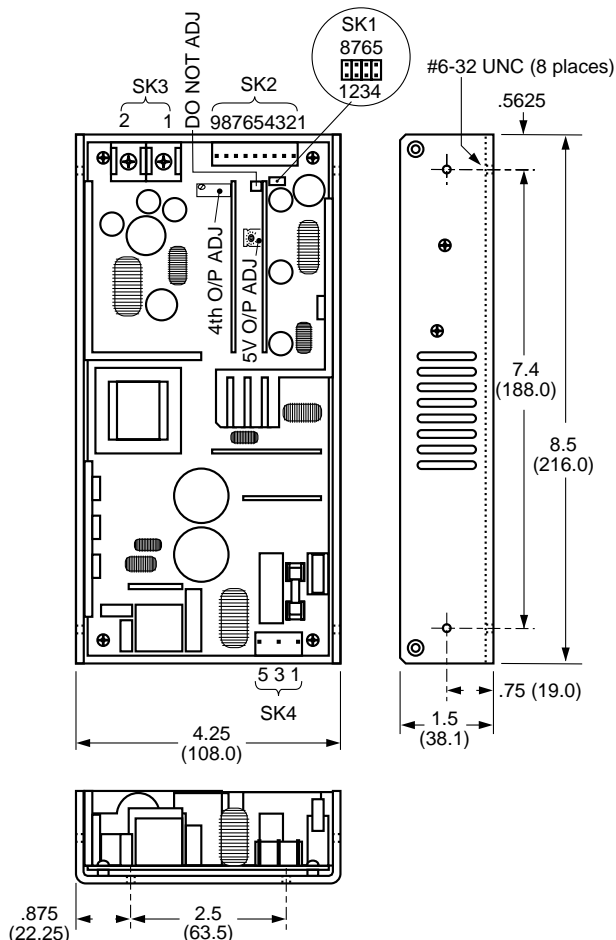
| Connector | LPQ152 | LPQ153 | LPQ154 |
|------------|-----------------------------|-----------------------|---------------|
| SK1 | PIN 1 INHIBIT -ve | INHIBIT -ve | INHIBIT -ve |
| | PIN 2 INHIBIT +ve | INHIBIT +ve | INHIBIT +ve |
| | PIN 3 +12 V | +15 V | +12 V |
| | PIN 4 No Connection | No Connection | No Connection |
| | PIN 5 COMMON | COMMON | COMMON |
| | PIN 6 -SENSE | -SENSE | -SENSE |
| | PIN 7 +SENSE | +SENSE | +SENSE |
| | PIN 8 I SHARE | I SHARE | I SHARE |
| SK2 | PIN 1,2 +12 V | +15 V | +12 V |
| | PIN 3,4,5 COMMON | COMMON | COMMON |
| | PIN 6 -12 V | -15 V | -12 V |
| | PIN 7 POK | POK | POK |
| | PIN 8 +5 V to +25 V (Float) | +5 V to +25 V (Float) | +24 V |
| | PIN 9 COMMON (Float) | COMMON (Float) | COMMON |
| SK3 | TB-1 COMMON | COMMON | COMMON |
| | TB-2 +5 V | +5 V | +5 V |
| SK4 | PIN 1 GROUND | GROUND | GROUND |
| | PIN 3 LINE | LINE | LINE |
| | PIN 5 NEUTRAL | NEUTRAL | NEUTRAL |

Mating Connectors

- (SK4) AC Input: Molex 09-50-8051 (USA)
Molex 09-91-0500 (UK)
PINS: 08-58-0111
- (SK2) Aux DC Output/Power fail: Molex 09-50-8091 (USA)
Molex 09-91-0900 (UK)
PINS: 08-58-0111
- (SK1) Remote sense/Remote inhibit: Molex 51110-0851 (USA)
PINS: 503-94-8100

Notes

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±0.02".
3. Specifications are for convection rating at factory settings unless otherwise stated.
4. Remote inhibit requires an external 5V @ 10mA to activate.
5. Mounting (6-32) maximum insertion depth is 0.12".
6. Warranty: 2 year
7. Weight: 1.75 lb. / 0.80 kg



Astec Connector Kit #70-841-010, includes al of the above.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9