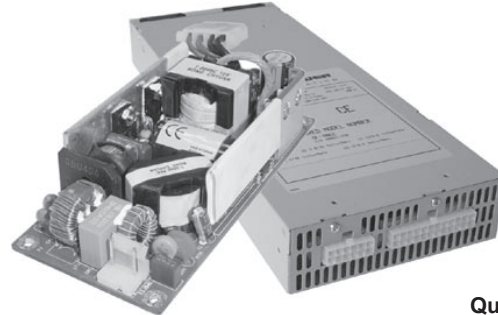


## QuiQ™ Series: MODULAR SWITCHER

### 1U High, up to 400 Watts with up to 4 Independent Outputs

#### FEATURES

- Fully Independent Output Modules
- Fully Characterized AC to DC Power
- Independent Floating Outputs
- 3.3V to 48VDC Output
- Only 1U-High (1.72 Inches)
- IEC60320 C14 AC Inlet
- 1 to 4 Outputs
- Integral Cooling Fans
- OVP, Short Circuit and Inrush Surge Protected
- Pluggable Connectors
- Remote Sense all Outputs
- SEMI F47 Compliant



QuiQ™



#### SAFETY STANDARDS

UL60950-1

CSA22.2 No.60950-1

EN60950-1

#### HOW TO ORDER BY MODEL NUMBER

QF- V1-V2-V3-V4

Substitute module code for the V1, V2, V3 or V4 outputs from the table on the right (see examples below)

<b>4 Outputs</b>	3.3V, 5V, 12V and 12V	QF-A-B-C-C
<b>3 Outputs</b>	5V, 12V and 12V	QF-B-C-C-X

#### NOTES:

1. V3 must always be 12V.
2. V4 may not be 3.3V or 5V.  
(Consult factory for alternative configurations)
3. 'X' - no output module fitted.

QF-\_\_-\_\_-C-\_\_

#### MODULE ORDERING GUIDE\*

MAX. OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL NUMBER
66W	3.3VDC	20.0A	A
100W	5.0VDC	20.0A	B
100W	12.0VDC	8.3A	C
100W	15.0VDC	6.7A	F
100W	18.0VDC	5.5A	G
100W	24.0VDC	4.2A	D
100W	48.0VDC	2.1A	E

NOTE\*: Total power is not to exceed 400 watts.

**TWO-YEAR WARRANTY**

## SPECIFICATIONS, QuiQ® SERIES

Typical at Nominal 115/230VAC Line, Full Load and 25°C Unless Otherwise Noted.

### OUTPUT SPECIFICATIONS

Total Output Power, Continuous, Max ..... See Table 1  
 Total Regulation, (Combined Line/Load) ..... 3.0%  
 Total Regulation, Standby Supply ..... 5.0%  
 Ripple & Noise, Pk-Pk<sup>1</sup> ..... 2%  
 Holdup Time ..... 16mS  
 Dynamic Response<sup>2</sup> ..... 500µSec  
 Temperature Coefficient ..... ±1.03%/°C  
 Minimum Load ..... TBB#-A  
 Overload Protection ..... Auto Recovery  
 Overvoltage Protection ..... Latched Off/AC Recycle  
 Remote Sense ..... Up to 0.25V Per Wire  
 Overtemperature Protection ..... Auto Recovery

### INPUT SPECIFICATIONS

Input Voltage Range ..... 90-264VAC  
 Power Factor ..... 0.98  
 Input Frequency ..... 47-63Hz  
 Inrush Current Limiting, 115/230VAC ..... 25/50A Peak  
 Input EMI Filter ..... EN55000 Curve B  
 Harmonic Distortion ..... EN61000-3-2  
 Input Immunity, Conducted  
 Fast Transients, Line-Line ..... ±2kV (EN61000-4-4 Level 3)  
 Surges, Line-Line ..... ±2kV (EN61000-4-5 Level 3)  
 Surges, Line-Ground ..... ±4kV (EN61000-4-5 Level 4)  
 Input Protection ..... Internal Fuse, 20A

### GENERAL SPECIFICATIONS

Efficiency<sup>3</sup> ..... 78-85% at Full Load  
 Internal Switching Frequency ..... 50-75kHz  
 Isolation, Class I, min.  
 Input to Output ..... 3000VAC  
 Input to Ground ..... 1500VAC  
 Output to Ground ..... 50VDC  
 MTBF (Bellcore) ..... 200,000 Hours  
 Safety Standards ..... EN60950, UL60950, CSA22.2/No.60950

### ENVIRONMENTAL SPECIFICATIONS

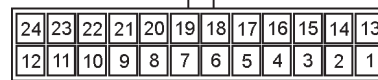
Operating Temperature ..... 0°C to 70°C Ambient  
 Derating ..... 2.5% / °C, 50°C to 70°C  
 Storage Temperature ..... -10°C to +70°C  
 Cooling ..... Integral Fans

### PHYSICAL SPECIFICATIONS

Case Material ..... Zinc Plated Steel  
 Dimensions, Inches(mm) ..... 1.6 H x 5.0 W x 13.0 D  
 (40.6 x 127 x 330)  
 Weight ..... 4.2 lbs. (1.9 kg.)

- NOTES:**
- 20MHz bandwidth. Measure with 0.1µF ceramic and 10µF tantalum capacitors in parallel across the output.
  - <5% deviation recovering to within 2% for 25% load change.
  - Typical efficiency is at low end of range for 12V output and at high end of range for 48V output.

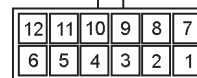
### J1 - OUTPUT CONNECTOR: MOLEX Mini-Fit Jr 39-29-5243 or equivalent



### PIN CONNECTIONS

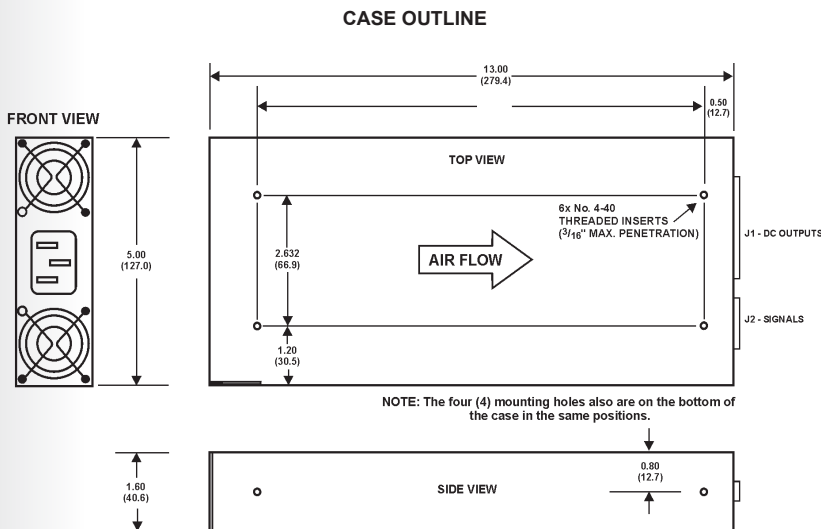
PIN	FUNCTION	PIN	FUNCTION
1	- V1 Out	13	- V1 Out
2	- V1 Out	14	+V1 Out
3	+V1 Out	15	+V1 Out
4	+V3 Out	16	+V3 Out
5	- V3 Out	17	+V3 Out
6	- V3 Out	18	- V3 Out
7	- V4 Out	19	- V4 Out
8	- V4 Out	20	+V4 Out
9	+V4 Out	21	+V4 Out
10	+V2 Out	22	+V2 Out
11	- V2 Out	23	+V2 Out
12	- V2 Out	24	- V2 Out

### J2 - SIGNAL CONNECTOR: MOLEX Mini-Fit Jr 39-29-5123 or equivalent



### PIN CONNECTIONS

PIN	FUNCTION	PIN	FUNCTION
1	- V1 Sense	7	+V1 Sense
2	- V3 Sense	8	+V3 Sense
3	- V4 Sense	9	+V4 Sense
4	- V2 Sense	10	+V2 Sense
5	Not Used	11	Not Used
6	Not Used	12	Not Used



**ALL DIMENSIONS IN INCHES (mm.)**  
 All specifications subject to change without notice.