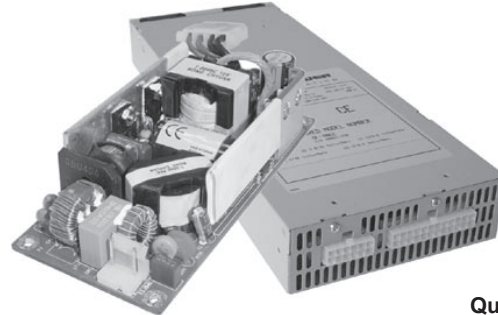


QuiQ™ Series: MODULAR SWITCHER

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)

4 Outputs	3.3V, 5V, 12V and 12V	QF-A-B-C-C
3 Outputs	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-Pk¹ 2%
 Holdup Time 16mS
 Dynamic Response² 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

Efficiency³ 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

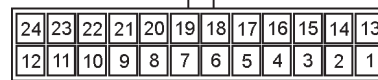
Operating Temperature 0°C to 70°C Ambient
 Derating 2.5% / °C, 50°C to 70°C
 Storage Temperature -10°C to +70°C
 Cooling Integral Fans

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:**
1. 20MHz bandwidth. Measure with 0.1µF ceramic and 10µF tantalum capacitors in parallel across the output.
 2. <5% deviation recovering to within 2% for 25% load change.
 3. Typical efficiency is at low end of range for 12V output and at high end of range for 48V output.

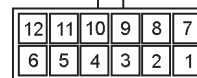
J1 - OUTPUT CONNECTOR: MOLEX Mini-Fit Jr 39-29-5243 or equivalent



PIN CONNECTIONS

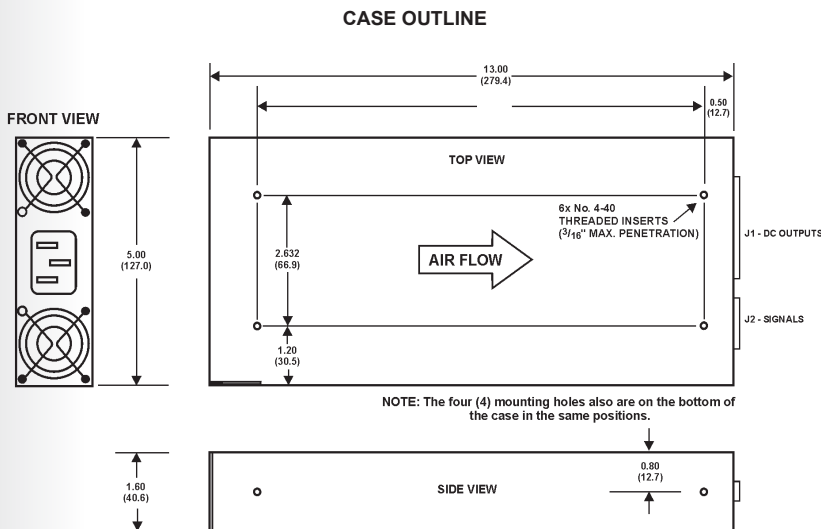
PIN	FUNCTION	PIN	FUNCTION
1	- V1 Out	13	- V1 Out
2	- V1 Out	14	+V1 Out
3	+V1 Out	15	+V1 Out
4	+V3 Out	16	+V3 Out
5	- V3 Out	17	+V3 Out
6	- V3 Out	18	- V3 Out
7	- V4 Out	19	- V4 Out
8	- V4 Out	20	+V4 Out
9	+V4 Out	21	+V4 Out
10	+V2 Out	22	+V2 Out
11	- V2 Out	23	+V2 Out
12	- V2 Out	24	- V2 Out

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.