

QuiQ™ Series: MODULAR SWITCHER

1U High, up to 400 Watts 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



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

NOTES:

1. Outputs should be configured in ascending order of voltage from V1 to V4.
2. V3 must always be 12V.
3. V3 and V4 may not be 3.3V or 5V.

(Consult factory for alternative configurations)

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

www.unipowercorp.com

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

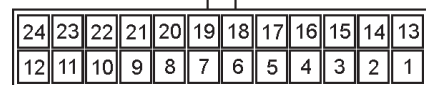
Operating Temperature 0°C to 70°C Ambient
 Derating 2.5% / °C, 50°C to 70°C
 Storage Temperature -10°C to +70°C
 Cooling Integral Fans

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:**
- 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.

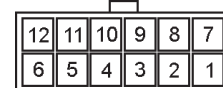
J1 - OUTPUT CONNECTOR: MOLEX Mini-Fit Jr 39-29-5243 or equivalent



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

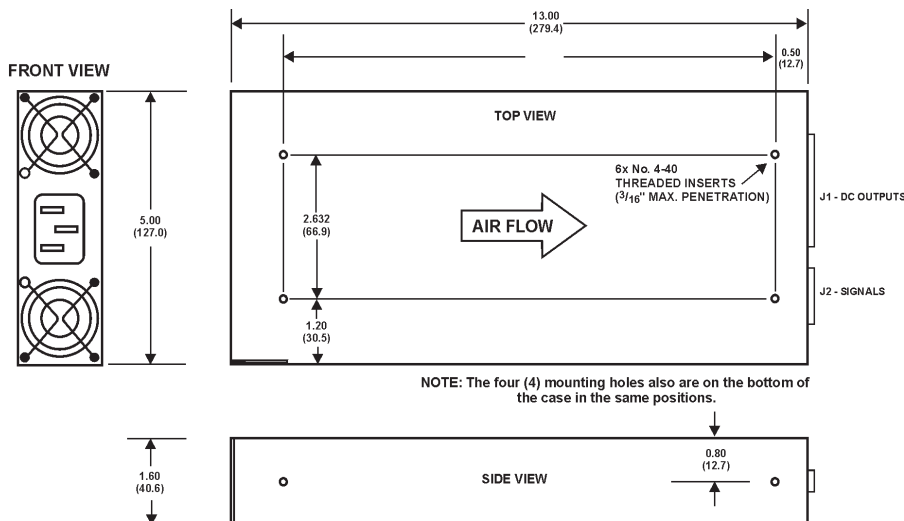
J2 - SIGNAL CONNECTOR: MOLEX Mini-Fit Jr 39-29-5123 or equivalent



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

CASE OUTLINE



ALL DIMENSIONS IN INCHES (mm.)

All specifications subject to change without notice.