

657 Watts

DS657-9-3

Total Power: 657 Watts
Input Voltage: 85-264 VAC
of Outputs: Two & Standby



Special Features

- EN61000-3-2 Harmonic Compliance
- Active Power Factor Correction
- Active Current Share
- 1U high
- FCC 47 CFR Part 15 Class A (US)
- CISPR22 Class A
- EN55022:1998 (Europe)
- EN61000 Immunity Standards
- 12V standby
- Fan Speed Control
- Over Current Protection (OCP)
- Over Voltage Protection (OVP)
- Over Temperature Protection (OTP)
- IEC320 AC Inlet
- On/off switch
- I²C Communications
- No minimum load required
- 2250VDC Isolation
- IEEE 802.3af Compliant Power Source
- 1 year warranty

Environmental

Operating Temperature: 0°C to 50°C
(50% power derating at 70°C)

MTBF (MIL HDBK 217F): >100KHrs at full load, 40°C

Humidity:

Operating: 85% RH, non-condensing

Non-operating: 95% RH, non-condensing

Electromagnetic Susceptibility: Designed to meet
EN61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-11 Level 3

Electrical Specs

Input

Input Range	85-264VAC
Frequency	47 - 63 Hz
Inrush Current	17A max, 115VAC, 25°C
Efficiency	80% typical at full load, 115VAC
EMI Filter	Class A
Power Factor	0.99 typical
Leakage Current	2mA maximum @ 240 VAC

Output

Maximum Power	657W
Hold Up Time	20ms (minimum)
Over Current	110% - 130% of nominal Autorecovery
Protection (OCP)	
Short Circuit	Latch off main outputs if one
Protection	of the main output short circuits to common
Over Voltage Protection (OVP)	107% - 117% of nominal Latch, AC recycle to reset

Logic Control

AC OK	TTL signal HI H
DC OK	TTL signal LOW
ENABLE	Logic LOW (1V) capable of 2mA sink current

Safety

UL/cUL 60950 3rd Edition
TUV EN60950 3rd Edition
IEC60950 3rd Edition
CE Mark EN60950 3rd Edition

DC Output Voltages

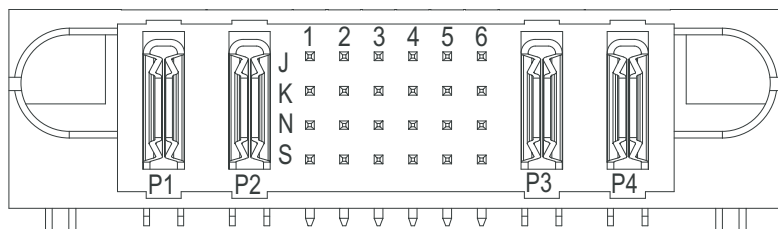
Output	Voltage(V)	Regulation	Minimum Load (A)	Maximum Load (A)	Ripple(peak-peak)
V1	+48V/+51V	±5%	0.0	10.0	500mV
V2	12V	±5%	0.0	12.0	120mV
V3	12V	±5%	0.0	0.5	120mV

Notes:

1. Ripple and noise tested with 10 μ F capacitor in parallel with a 0.1 μ F capacitor, 20MHz bandwidth.

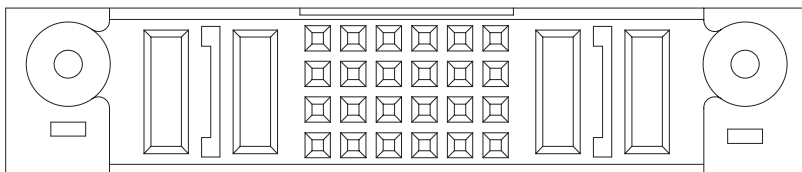
DS657-9-3 Mechanical Drawings:

PSU Connector: FCI 51720-10202402AA



Pin Location	Signal Reference
P1	12V Output
P2	12V Output RTN
1J	12V + Sense
1K	12V - Sense
1N	12V Current-Share
1S	Power Supply Present
2J	Serial Data Line
2K	Serial Clock Line
2N	Address Input 0
2S	Address Input 1
3J	12V Aux Output RTN
3K	12V INHIBIT
3N	51V INHIBIT
3S	Address Input 2
4J	12V Aux Output
4K	DC OK
4N	AC OK
4S	FANFAIL / OTP
5J	NOT CONNECTED
5K	NOT CONNECTED
5N	NOT CONNECTED
5S	NOT CONNECTED
6J	51V + Sense
6K	51V - Sense
6N	51V Current-Share
6S	NOT CONNECTED
P3	51V Output RTN
P4	51V Output

Mating Connector FCI 51740-10202402AA





Logic Signal

1. 12V Remote Sense

Pin 1J - 12V Sense
Pin 1K

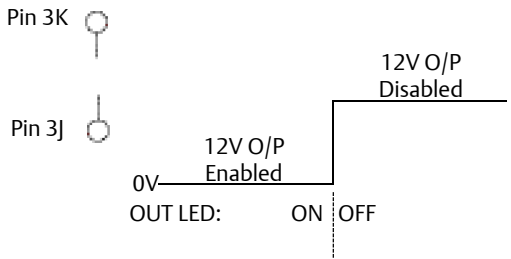
Compensates for up to 0.5V drop. Recommended shielded twisted wire pair.

2. 12V Current-Share (In/Out Signal)

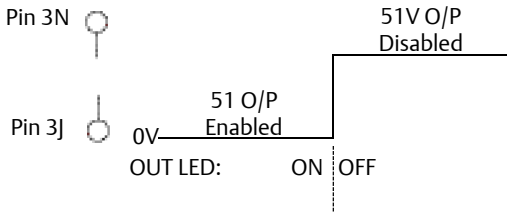
Pin 1J C-Share Pin is used when connecting units in parallel to achieve current sharing. Current share accuracy is typically 10% of full load.
Pin P2

Note: Current-Share voltage is 1.5V at 100% load current (12A)

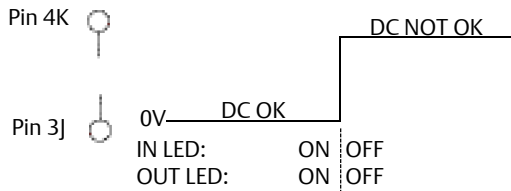
3. 12V Inhibit (In Signal)



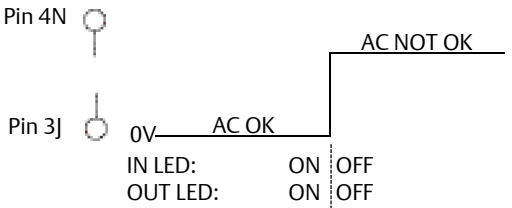
4. 51V Inhibit (In Signal)



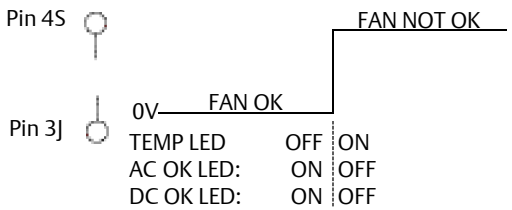
5. DC OK (Out Signal)



6. AC OK (Out Signal)



7. FANFAIL/OTP (OUT Signal)



8. 51V Remote Sense

Pin 6J 51V Sense
Pin 6K 51V -Sense

Compensates for up to 0.5V drop. Recommended shielded twisted wire pair.

9. 51V Current-Share (In/Out Signal)

Pin 6N C-Share Pin is used when connecting units in parallel to achieve current sharing. Current share accuracy is typically 10% of full load.
Pin P3

Note: Current-Share voltage is 2.5V at 100% load current (10A)

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 1UX, UK
Telephone: 44 (1384) 842-211
Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
Tower1, Metroplaza
223, Hing Fong Road
Kwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



DS657-9-3 PSU Outline

