



FAB1002001

Features

- ▶ 3U * 8TE * 160 mm, compact PCI format PICMG 2.11, standard 47pts connector
- ▶ Vin : 18-36Vdc
- ▶ 5 Outputs
- ▶ Pout max : 220W
- ▶ Ruggedized for Defense applications
- ▶ Conduction cooled, wedgelock
- Safety IEC/EN 60950-1, RoHS : consult factory

Applications



This compact PCI format type of DC/DC has been designed for defense and hard environment applications. Based on Vicor, it implement EMI filtering, transient protection MIL-STD1275A.

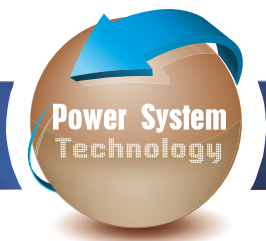
INPUT

Voltage range : 18-36Vdc, stanag 1008
 Input protection : Transient and surges MIL-STD1275A, MIL-STD 704E
 Overcurrent: By Fuse
 Reverse polarity : By series diode

OUTPUT

Voltage : V1 : 5V / 10A (20A max), V1 + V2 not exceed 100W
 V2 : 3V3 / 10A V4 : +12V / 1,6A
 V3 : 12V/ 8A (12A max.) V5 : -12V / 1,6A
 Power : 220W
 Current limit, short circuit : protected on every output
 Overvoltage : protected on every output

	V 1, V2, V3, V4, V5		Conditions
	Typ.	Max.	
Line regulation	+/- 0,2 %	+/-1 %	Low line to high line ; full load
Load regulation	+/- 0,4 % (V1, V2, V3) +/- 1 % (V4, V5)	+/- 1 % (V1, V2, V3) +/- 2 % (V4, V5)	0 % to full load
Ripple and noise	1 %	2 %	Peak to peak - Bandwidth 20MHz according to o/p voltage
Current limit	115 % of I nom.	135 % of I nom.	Vout = 95% of nominal; Automatic restart



▼ Signal

Output DC OK : open collector closed is OK, (PG-H, PG-L) and led on front panel
Output adjust : factory adjustable by internal resistor
ON/OFF : ON when Low level or left open
Input OK : led on front panel
OTP : overtemperature protection

▼ Environmental

Storage temperature : -40°C to +100°C
Operating temperature : -40°C to +100°C baseplate,
conduction cooled with wedge lock to the chassis
Mechanical, shock, acceleration : built to meet MIL-STD-810E

▼ EMI / EMC

MIL-STD-461E built to meet CE01, CE02 (Additional external filter)
MIL-STD-1275A Active input protection 60V/100ms
MIL-STD-704A Transient

▼ Isolation

Input to Chassis : > 20 mohm / 100Vdc
Input to Output : > 20 mohm / 100Vdc
18V / 8A to chassis : > 20 mohm / 100Vdc
No isolation between 5V, 3V3, +/-12 and chassis
0V on chassis

▼ GENERAL

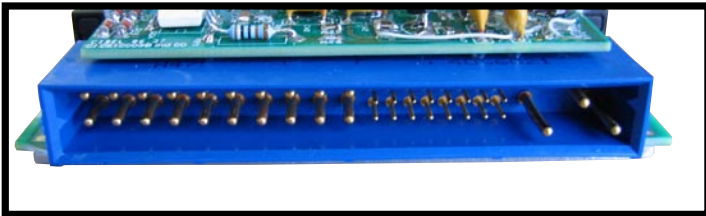
Safety : built to meet EN60950



▼ Mechanical

Positronic 47 pts : PCIH47M400A1/AA

J1	DESCRIPTION
1 to 4	+V1
5 to 12	0V
13 to 18	+V2
19	NC
20	+V4
21	-V5
22	0V
23	NC
24	0V
25	+V3
26	NC
27	Enable
28	+V3
29-30	NC
31	+V3
32-33	NC
34	0V
35-36	NC
37	-V3
38-39	NC
40	-V3
41	NC
42	Output OK
43	-V3
44	NC
45	0V
46	+IN
47	-IN





▼ Mechanical

Front panel may be removed

