



Military Power Supply

Model: GIL76250CBA

Up to 250W output power

18Vds to 32Vdc Input Voltage Rang

Output Voltage #1 : 12V _20Amp Output Voltage #2 : 5V_ 4Amp Output Voltage #3 : 3V3 4Amp



Features

- Isolated outputs voltages.
- Output power up to 250W.
- Wide input voltage 18VDC to 32VDC
- Remote on/off (option).
- Reverse input voltage protection. Auto recovery.
- Output Current limit for each output.
- Operating ambient temperature range -40°C to +65°C.
- Measurement all Voltages & Currents through I²C (AD7997B)
- O.U.V. indication
- High efficiency up to 89%.
- Protection against surge & spikes per MIL-STD-1275A&B, MIL-STD-704A÷E.
- Protection against conducted susceptibility and radiated susceptibility per MIL-STD-461.
- Decreases input line Susceptibility emission per MIL-STD-461, CS101.
- Vibration withstand according to MIL-STD-810.

Applications

- Automotive
- Industrial
- Military

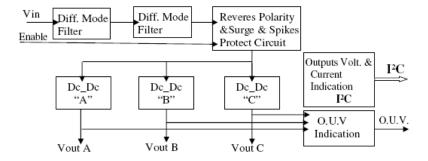


Figure 1: Block Diagram



Specification (at 25°C, 75% load, 28V nominal voltage, unless otherwise specified)

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PARAMETER				
Input	00			
Nominal input voltage:	28v			
Input range	18v ÷ 34v			
Reverse input protect	Automatic Recovery			
Enable	Yes (positive or negative, see how to order)			
Meet MIL-1275A/B	Surge – $100v/50ms$, 0.5Ω ,			
	Spikes – 250v/70us			
Meet MIL-704A/F	Surge – 80v/75ms			
	Spikes – 600v/10us			
Meet DO160E cat A/Z	Surge – 80v/100ms			
	Spikes – 600v/10us			
Meet MIL-461F	CS-101, CS-106,			
Output #1				
Output voltage	12v - Isolation voltage			
Output power	Up to 240W (20Amp.)			
Voltage trim	+/- 10% (only by manufacture)			
Voltage Accuracy	+/- 1%			
Line Reg. & Load Regulation	+/-1.5% max			
Output ripple (10MHz)	35mVrms max			
Output Current limit	Remove overload for recovery.			
Output #2	·			
Output voltage	5v - Isolation voltage			
Output power	Up to 15W (3Amp.)			
Voltage trim	+/- 10% (only by manufacture)			
Voltage Accuracy	+/- 1%			
Line Reg. & Load Regulation	+/-1.5% max			
Output ripple (10MHz)	30mVrms max			
Output Current limit	Remove overload for recovery.			
Output #3	•			
Output voltage	3v3 - Isolation voltage			
Output power	Up to 15W (4Amp.)			
Voltage trim	+/- 10% (only by manufacture)			
Voltage Accuracy	+/- 1%			
Line Reg. & Load Regulation	+/-1.5% max			
Output ripple (10MHz)	30mVrms max			
Output Current limit	Remove overload for recovery.			
General				
Power Efficiency (typ.)	89%			
Remote control	Yes (see how to order)			
Insolated Output to Input	500vMin			
Case coating	Anodize			
Weight (typ.)	540 gr.			
Environmental				
Temperature	-40 + 65°C , Operational Base Plate			
MIL-STD-810G, Methods 501.5,502.5	·			
	-40 + 95°C , Storage			
Vibration	MIL-STD-810G, Method 514.5			
SHOCK ,MIL-STD-810G	SRS Shock of 40g's 15-23 msec @ cross over			
Method 516.5 –Ground equipment	Freq -45 Hz per Table 516.6-I , Operational			
VIBRATION, MIL-STD-810G	, , , , , , , , , , , , , , , , , , , ,			
Trucks & Trailers.	Cat. 4. Secured Cargo			
Transportation	Cat. 5. Loose Cargo (with its transit case)			
Aircraft , Operational	Cat. 20 Ground Vehicles			
Amorait, Operational	Jal. 20 Ground Verillies			



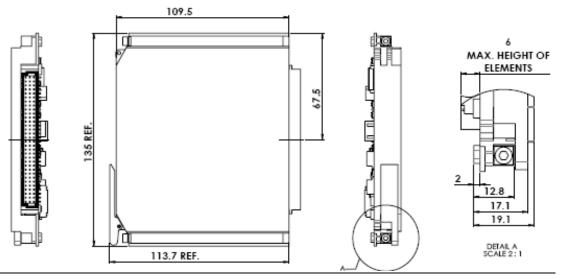
Physical

• Connector: DIN41612 STYLE M 42+8 pin male

Pin No.	Description	Pin No.	Description	Pin No.	Description
A13	GND	B13	GND_out	C13	GND_out
A14	NC	B14	NC	C14	O.U.V. Indication
A15	Inhibit	B15	NC	C15	NC
A16	NC	B16	+28v_input	C16	+28v_input
A17	GND_out	B17	GND_in	C17	GND_in
A18	+3v3	B18	NC	C18	+3v3
A19	+12v	B19	+12v	C19	+12v
A20	+5v	B20	+5v	C20	+5v
B2	+5v	B22	GND_out		
B5	GND_out	B25	CHASSIS		
B8	+3v3	B28	+284v_input		
B11	+12v	B31	GND_in		

Table 1: Pin Connection and function

• O.U.V. Indication: Normality mode - open Collector. Failure mode -GND <u>Dimensions:</u>



How to Order:

GIL-76250-CBA (for 12v/20Amp, 5v/3A, 3v3/4A)

For other outputs voltage- please contact factory.

	3v3	5v	12v	15v
Option Output #2	Α	В	С	D
Option Output #3	Α	В	С	D

NOTES:

- 1. Warranty: 2 year.
- 2. Specification subject to change without notice.

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