

FAB0909016



Features

- 21.5-32 Vdc Input voltage ranges
- Output : 270Vdc - 3500 W
- 442 * 290 * 120 mm MIL38999 serie connectors type
- Conform to MIL-STD-461E, MIL-STD-704A, MIL-STD-810F, MIL-STD 889
- Operating -40°C to +55°C, internal fan cooled

Safety IEC/EN 60950-1, ~~RoHS lead free solder compliant~~



Specially designed for avionic applications, this DC/DC converter is based on the integration of 10 PST14 standard units with input filtering, transient protection, mechanical reinforced and conformal coating to meet severe environment.

Electrical Input Data

Input		28			Unit
Characteristics	Conditions	min	typ	max	
Operating input voltage		21,5	28	32	V
Input Surge	<=100ms			80	V
Undervoltage lockout		14,8	15,3		V
Overvoltage lockout		36,3	37,8	39,6	V
Input current	At Vinmin		191		A
No-load input power			63	95	W
Peak inrush current	At Vin max		204		A
Reverse polarity		YES by Fuse			

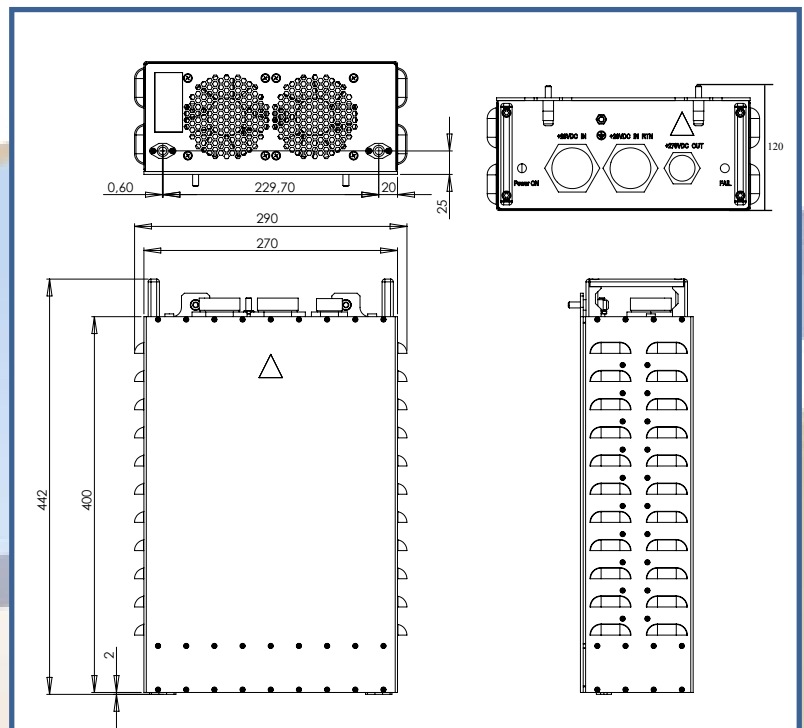
Electrical Output Data

Output		270			Unit
Characteristics	Conditions	min	typ	max	
Output voltage		265	270	275	V
Trim range	Factory adjustable	252		308	V
Overvoltage protection		315	327	339	V
Nominal output current			13		A
Max. output current			14,3		A
Output current limit		14,5	16,4	16,9	A
Output noise			350	550	mv
Hold up time	Input= 28Vdc Output 1350W	0,5	1		ms
Start up time	Input= 28Vdc	20	23,3	50	ms

Connector Pin Allocation

Connector	Description	
	Name of signal	PIN locator
J1 D38999-24WJ19PN	Input +28V	A-B-C-E-F-G-H-M-P-S
J2 D38999-24WJ19PA	28V return	A-B-C-E-F-G-H-M-P-S
	Inhibit	U
	Inhibit return	K
J3 TV07RW1597S	+270V	C-M
	270V return	G-L
	+ Degraded mode	A
	-Degraded mode	B
	+Summary Fails	K
	-Summary Fails	J

Mechanical Data



Approvals

- Qualified by laboratory Emitech france
- MIL-STD-461 CE102, CS101, 114, 115, 116
- MIL-STD-810F environmental : Altitude, humidity, drip, salt
- MIL-STD-810F mechanical : Shocks, vibrations, acceleration
- MIL-STD-704A, MIL-STD-1275A : transient protection

Signals

- Inhibition : shorted or active lo
- Powergood : Led : green if OK, Red if failed or degraded
- Input Led :