



FEATURES

355 x 127 x 80 mm
Vin : 90-250Vac
5 Outputs independent.
Pout max : 800W



APPLICATIONS

Industrial and hard environment

INPUT

Voltage range : 90-264Vac Frequency : 47 - 440 Hz
Hold up time : 50ms , 115Vac / 400Hz nominal power
Input protection : Transient and surges MILSTD704A, +/-600Vpeak/10uS/50Ohms
Overcurrent: by Fuse

OUTPUT

Voltage : V1 : 5V / 60A Nom. (80A max.) V4 : -12V / 2A Nom. (7A max.)
 V2 : 3.3V / 22A Nom. (45A max.) V5 : 5,2V / 13A Nom. (20A max.)
 V3 : 12V/ 5A Nom. (7,2A max.)
Power : 525W Nominal, 800W Peak
Current limit, short circuit : protected on every output
Overvoltage : protected on every output
Remote Senses : V1, V2 only

	V 1, V2		V3,V4, V5		Conditions
	Typ.	Max.	Typ.	Max.	
Line regulation	+/- 0,2 %	+/- 1 %	+/- 0,2 %	+/- 1 %	Low line to high line ; full load
Load regulation	+/- 0,2 %	+/- 1 %	+/- 1 %	3 %	10 % to full load
Ripple and noise	2 %	4 %	2 %	3 %	Peak to peak - Bandwidth 20MHz
Current limit	115 % of I nom.		115% of I nom		Vout = 95% of nominal ; Automatic restart

SIGNALS & PROTECTIONS

Output OK : green led on every output
 Output adjust : by internal resistor from 50 to 110 % of Vnom.
 Powergood : Open collector, closed if OK
 General shutdown : isolated contact
 Overtemperature Protection: 95°C +/- 5°C (internal thermal switch closed to V1 baseplate)
 All outputs will shutdown. Restart at 60°C +/-10°C

ENVIRONMENTAL

Storage temperature : -40°C to +105°C
 Operating temperature : -10°C to +55°C, ambient external air forced 2m/s
 (regarding to tolerance of thermal switch +/-5°C)
 85°C max. +/-5°C heatsink temperature
 Altitude: 11000 feet
 Humidity: 95% non condensing, operating; Up to 100% condensing , non operating. PCB coated
 Vibration : MIL-STD-810E, method 514.4, 10-2000Hz,
 Test level: 0.02G² from 10-1000Hz, -6db/oct from 1000-2000Hz
 The unit shall not have mechanical resonances in the range of 64-72Hz and 130-143 Hz

Mechanical Shock

MIL-STD-810E, Method 514.4, 20G, 11msec, half sine

Acceleration

MIL-STD-810E, Method 514.4, 12G in each direction

SCREENING

Apply to each production unit
 Vibration : 12 hours
 Burnin : 12 hours at nominal load, 60°C heatsink
 Temperature cycling :12 hours, 3 cycles from -30°C to 90°C

EMI / EMC

MIL-STD-461C, Part 2, Category A1b:

Tests: CE01, CE03,CE07,CS01,CS02,CS06,
 RE02, limit RE02, Fig. 2

MIL-STD-461E

CE101 limit Fig.CE101-4, CE102 limit Fig. CE102-1,
 CS101, CS114 limit Table V, aircraft internal, CS115 limit Fig. CS115-1,CS116 limit
 Fig CS116-2, I max 5A
 RE102 limit Fig. RE102-3, fixed wing internal ≥ 25 meter, nose to tail

ISOLATION

Input to chassis : 2121 Vdc
 Input to Output : 1500 Vdc
 Output to Chassis : >100 mohms / 500Vdc

GENERAL

Safety : built to meet EN60950. No qualification.

MECHANICALS

Weight : 2,9 Kg +/-0,1Kg .

Power dissipation : max. 200W.

Finish : Chemical conversion coating Per MIL-C-5541A Class 1A (Alodyn 1200).

**INPUT : 3 points D sub FCI
DA3W3PA00LF with 3 male contacts 20A**



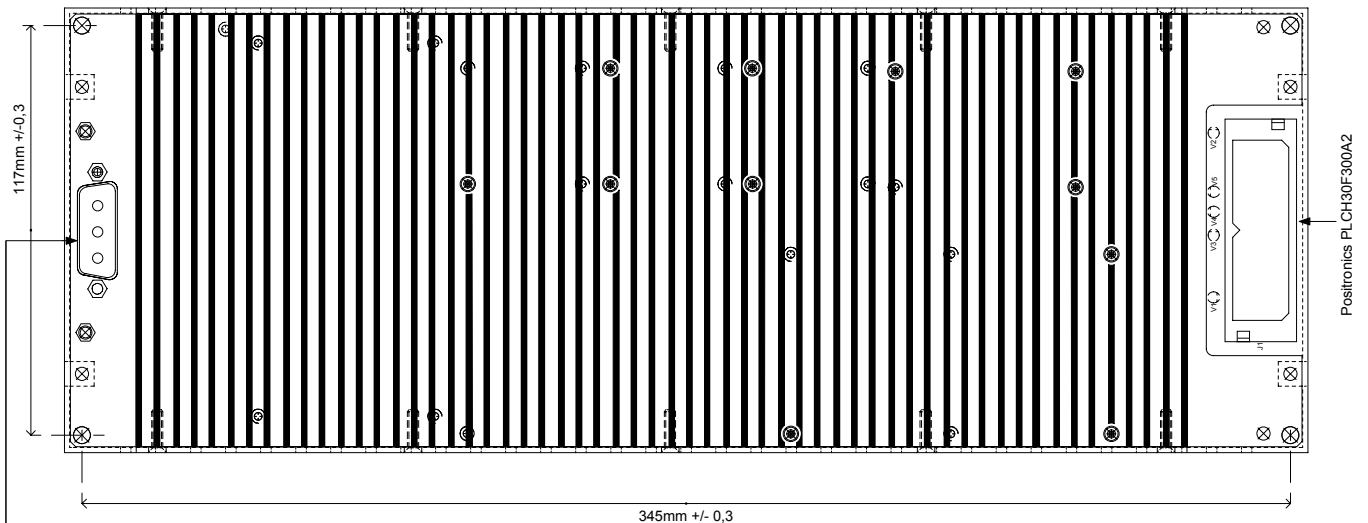
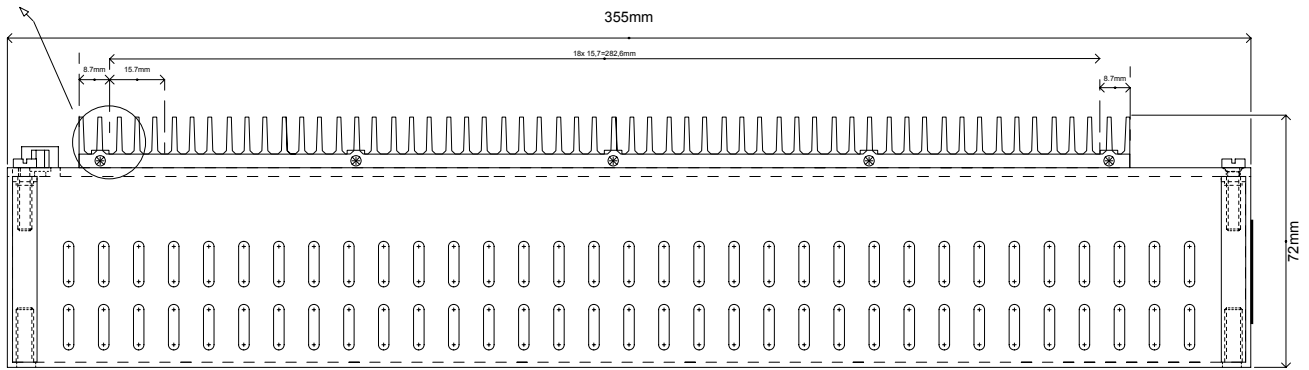
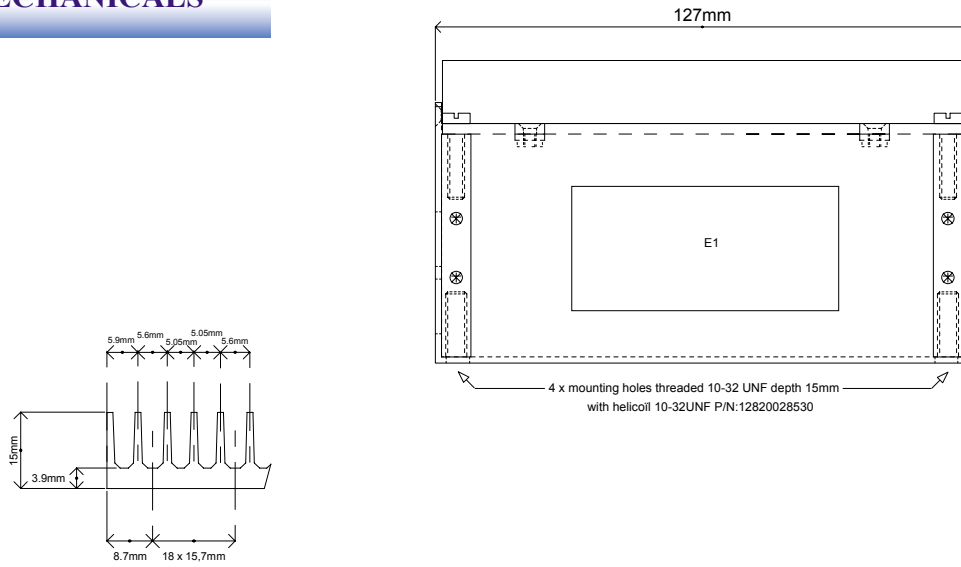
J2	DESCRIPTION
A1	Line
A2	Neutral
A3	Earth



OUTPUT&SIGNALS: PLCH30F300A2

J1	DESCRIPTION
1,11	0V +3,3V
2,12	+3,3V
22	+Sense +3,3V
21	-Sense +3,3V
3,13	0V +5,2V
4,14	+5,2V
6	+12V V1
16	0V +12V V1
5	+12V V2
15	0V +12V V2
7, 8, 17, 18, 27	+5V
10,19,20,29,30	0V +5V
28	+Sense +5V
9	-Sense +5V
23	PGood +
24	PGood -
25	+INH
26	-INH

MECHANICALS



FCI Réf:DA3W3PA00LF
with 3 male contacts (20A) FCI Réf:8638-PPS-2005

Mating connector:DA3W3SA00LF
with 3 male female (20A) FCI Réf:8638-PSS-2005