



Carte PFC FRONT END

FEATURES

6U x 8TE x 160 mm
Vin : 90-264Vac
Output : 360Vdc
Pout max : 1500W
Fan cooled 2m/s min. (External)
RoHS compliant



APPLICATIONS

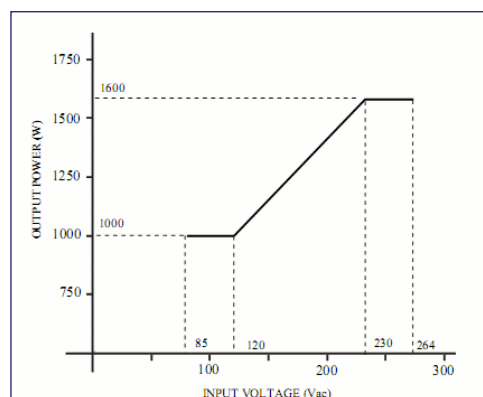
Power factor correction front end for : Industrial and hard environment

INPUT

Voltage range : 90-264Vac Frequency : 43 - 440 Hz
Powerfactor correction EN61000-3-2
Input protection : Transient and surges MIL-STD461 CS101, CS114, CS116
Overcurrent: by Fuse

OUTPUT

Voltage : 360V / 4,2A
Power : 1500W at 65°C with fan cooled 2m/s.
Current limit, short circuit : protected on input
Overvoltage : protected on input



			Conditions
	Typ.	Max.	
Line regulation	+/- 1,4 %	+/-2 %	Low line to high line ; 40 %
Load regulation	3,5 %	5 %	0 % to full load
Ripple and noise	4 %		Peak to peak - Bandwidth 20MHz according to o/p voltage

SIGNALS

Provide authorisation for the load to start up if EN+/EN- is activated and if establishment time of the PFC is finished
enable when +12Vmig-Vvalid = 12V/80mA

Valid :

enable otherwise

(EN+ ; EN-) :

input for load enabling

disable when < 1V
enable when > 3V

ENVIRONMENTAL

Storage temperature : -40°C to +100°C

Operating temperature : -40°C to +65°C, ambient external air forced 2m/s min.

Mechanical, shock, acceleration : built to meet MIL-STD-810E

EMI / EMC

MIL-STD-461E

built to meet CE101 limit Fig.CE101-4, CE102 limit Fig. CE102-1,

No laboratory certification, certified in the customer equipment.

ISOLATION

Input to Chassis : 2121 Vdc or 1500Vrms without Y capacitor

Input to +12Vmig & Vvalid : 4250 Vdc

Input signal to primary : 4250 Vdc

Input signal to Chassis : 2120Vdc

GENERAL

Safety : built to meet EN60950

MECHANICALS

Weight : 1,3Kg

AC INPUT : DIN41612 F48Male

J1	DESCRIPTION
(z4, b4, d4) (z30,b30,d30) (z16,b16,d16) (z18,b18,d18)	NC
(z2, b2, d2) (z32,b32,d32)	EARTH
(z6, b6, d6) (z8,b8,d8) (z10,b10,d10) (z12,b12,d12) (z14,b14,d14)	L1
(z20,b20,d20) (z22,b22,d22) (z24,b24,d24) (z26,b26,d26) (z28,b28,d28)	L2



DC OUTPUT & SIGNALS : DIN41612 F48Male

J2	DESCRIPTION
(z4, b4, d4) (z30,b30,d30) (z10,b10,d10) (z16,b16,d16) (z28,b28,d28) (z18,b18,d18)	NC
(z2, b2, d2) (z32,b32,d32)	EARTH
(z14,b14,d14)	+12VMIG
(z12,b12,d12)	VALID
(z20,b20,d20) (z22,b22,d22)	-OUT
(z24,b24,d24) (z26,b26,d26)	+OUT
(z6,b6,d6)	EN+
(z8,b8,d8)	EN-

MECHANICALS

hauteur : 8TE

