



# Short form product specification



MPS1000 12NC: 40224301032X

### Description:

The MPS1000 is a power supply for AC or DC input voltage and generates 4 isolated output-voltages of 28Vdc. Due to the high efficiency the unit is very low weight and compact. The unit has a very reliable construction and is best suited for use in military equipment.

It's robust waterproof housing, high performance and reliability make the MPS1000 the ideal power-source for use in shelters, armored vehicles as well as avionic, naval and open air applications

### Specifications:

OUTPUT SPECIFICATION	Condition / remark	Output 1	Output 2	Output 3	Output 4
Output voltage	setting within 2%	28Vdc	28Vdc	28Vdc	28Vdc
Regulation overall		5%	5%	5%	5%
Maximum output power	Continuous	250W	-60...300W	300W	82W
Output power total unit		1000W			
Output current peak	< 1 second	22A	22A	22A	5A
Ripple and noise (BW 20Mhz)		100mVpp	100mVpp	100mVpp	100mVpp
Output to frame isolation	Test voltage 500Vdc	Floating	Floating	Floating	Floating
<b>INPUT SPECIFICATION</b>					
Input voltage	STANAG 4165	103V...264Vac (47-440Hz) or 145...360Vdc			
Efficiency		>80%			
Inrush current	Cold start	< 60A			
Power factor	At 650W output	>95%			
Input power maximum		1200W			
<b>GENERAL SPECIFICATION</b>					
Weight	Maximum	10 Kg			
Dimensions	D x W x H in mm	400 x 141 x 200			
Colour	Dark Earth	352259800224; according HSV-P-3397/010			
MTBF (MIL-HDBK-217F)	At 35 degr.C, GF	> 100000 hrs			
Protections		Overvoltage, Overtemperature, Current limit, Input fused			
<b>ENVIRONMENTAL SPECIFICATION</b>					
EMC	Acc. CE-mark	MIL-STD-461E, EN55011 class A			
Safety	Acc. CE-mark	MIL-STD-454M, EN60950			
Shock, vibration, Salt-sea atmosphere / Corrosion, sand and dust, fungus		MIL-STD-810E			
Temperature range operational	Excl. sun radiation	-30...+49gr.C			
Temperature range storage		-31...+71gr.C			
Humidity	Storage / operating	95% max. at 40 degr. C.			
Low Pressure	< 3000m	57kPa...110kPa			
Leakage	Waterproof	IP67			

### Connections:

Input voltage	Output 1	Output 2	Output 3	Output 4
L: J1-1	XV28P1: J2-1, J2-5	XV28P2: J2-3	XV28P3: J3-1, J3-5	XV28P4: J3-3
N: J1-2	XV1GND: J2-2, J2-6	XV2GND: J2-4	XV3GND: J3-2, J3-6	XV4GND: J3-4
PE: J1-3, J1-4				
Connector J1: D38999-24WE06PN	Connector J2: D38999-24WE06SN		Connector J3: D38999-24WE06SB	

Note 1: All specifications stated in this document are for product description only. For detailed specifications see user-manual; specifications in the CFS/user-manual are always leading.