



MPLP 2500 - xx

Input voltage: 230 V,AC

Output voltages (DC):

24 V, 48 V, 60 V, 110 V, 220 V

Output power: 2.500 W

MAIN CHARACTERISTICS

- High fidelity
- Robust design
- High efficiency
- Passive cooling

APPLICATION

This device is designed to be used in industrial modular systems of uninterrupted power supply of DC voltages that are demanded to funciton as high efficiency systems. It is designed for long lasting function and life time without specific need for the maintenance.

DESCRIPTION

This device has inbuilt the set for the power factor correction and input power shaping in the correct sinus form. There is inbuilt the regulator that makes the input voltage changing depending on the battery ambiental temperature. The rectifier shows very good dynamic responses on the input voltage changes and load changes as well. Charging characteristics are IU or IUUo with precise current limit.

There communication is the microprocessor set inbuilt. enables the communication with the microprocessor of unit the uninterruptible power supply system. Correctly chosen and defined topology, precisely chosen and dimensioned the components, wide function temperature range, robust design, natural cooling guarantee without fan, very high efficiency of this devices.

DEVICE TYPES

Туре	MPLP 2500 - 24	MPLP 2500 - 48	MPLP 2500 - 60	MPLP 2500 – 125	MPLP 2500 - 220
Output voltage, nominal	24 VDC	48 VDC	60 VDC	125 VDC	220 VDC
Output voltage, real, at 20°C	27,2 VDC	54,5 VDC	68,1 VDC	136,2 VDC	245,2 VDC
Output current	60 A	50 A	40 A	20 A	10 A



TECHNICAL DATA

Series: MPLP 2500

Output power: 2.500 W (1500 W at 24 V output)
Input voltage: 230 V, 50Hz (195 V,AC - 275 V,AC)

Start voltage: 184 V,AC Input undervoltage: 164 V,AC

Power decreasing: 164 V,AC < Uul 195 V,AC, linear

Nominal input current: 10.87 A,AC, sinus

Input power factor: >0.99 @ P >20%, >0.9995 @ P >95%

Efficiency: $\geq 95\%$ @ P = 50% Internal input fuse: 16A fast (6.3 x 32mm) Internal output fuse: fast (6.3 x 32mm)

RSO input and output protection: yes

O-Ring diode: MOSFET in positive (+) line at 24 V and 48 V output

Diode at 110 V and 220 V output

Input surge protection: yes

Stability of output voltage: -1%, passive current sharing

Short circuit protection: yes, continuous short circuit 1 x In

Charging characteristics: IU curve towards DIN 41772 / DIN 41773

Temp. power decreasing: from 70°C up to 80°C linear Output voltage ripple: $\leq 0.1 \%$ (Vvv @ P =50%),

≤ 0,02% (Vef @ P =50%),

Design: PFC predregulator + LLC regulator
Display: 2 x 4 16 segment alfanumeric display

Uul, Uizl, Iizl, Pizl, Pizl %, temp, errors

Remote signaling: malfunction, relay

contacts: (1A @30 V,DC / 0.5A @60 V,DC)

Communication: CAN-Bus

Connector: FCI_51939-137LF

Parallel output connection: possible, current splitting difference ≤ 3% In

Ambijental temperature: (in function) - 30°C to + 55°C,

(in storage) - 40°C to + 85°C

Max. inbuilt height: 2.500 m

Construction: plug-in module for 19" system, 6 U (HE) x 21 TE

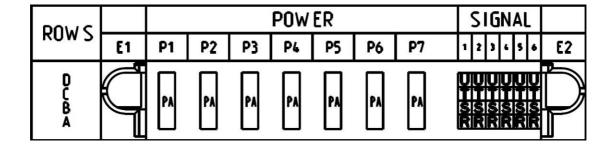
Dimensions (I/w/h): 305 mm x 106 mm x 262 mm

Cooling: passive, natural air circulating cooling

Casing type / protection: IP 20 Weight: 6.35 kg



CONNECTORS



CONNECTOR X102	CONNECTION
P1	Grid, L
P2	Grid, N
P3	Earth
P4	Output, + V,DC
P5	Output, + V,DC
P6	Output, 0 V,DC
P7	Output, 0 V,DC

	1	2	3	4	5	6
D	REMOTE SENSE +		REL NC	CODE 2	MODULE ALARM	CAN VCC
C		PRESENCE IN	REL COM	CODE 1	TEMP ALARM	CAN H
i I						
В		PRESENCE OUT	REL NO	CODE GND	AC FAIL	CAN L
A	REMOTE SENSE -			MODULE DISABLE	SIGNAL GROUND	CAN GND



LED INDICATION

LED	Color		Function	
ON	•	green	Input voltage OK (criteria: 195 VAC ≤ Uul ≤ 275 VAC)	
U _{izl}	•	green	Output voltage OK	
U _{izl} >	•	red	Overvoltage of output voltage (criteria: Uizl > 1,12 Un)	
Greška	•	red	Common alarm (input undervoltage, non correct ripple form and input frequency, input overvoltage, output overvoltage, internal communication error, remote sense error, non valid CAN address, overheating, short circuit,	



MARETON d.o.o.

Odranska 1, HR-10000 Zagreb, Croatia,

Tel.: +385 1 3028 127 Fax.: +385 1 3027 457 E-mail: mareton@mareton.hr Internet: www.mareton.hr

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