

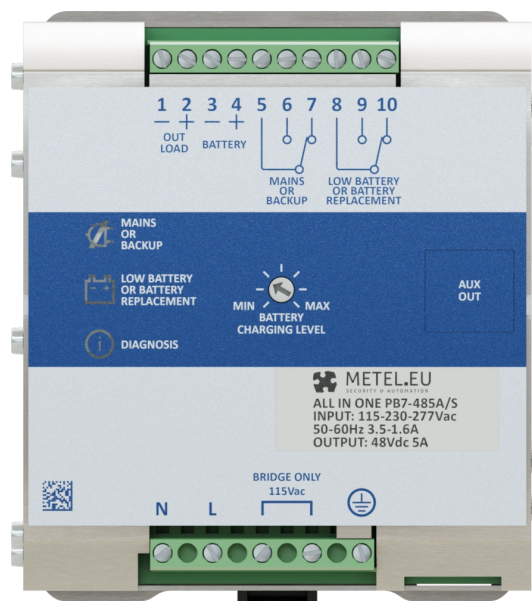
Accessories

Short Catalog Sheet

METEL ■ EU

PB7-485A/S

- Input voltage 115 - 277 VAC
- Output voltage 48 VDC / 5A
- Battery charging output 48 VDC / 5 A
- Suited for Open Lead Acid, Sealed Lead Acid, Lead Gel batteries
- Relay output signaling mains / backup mode
- Relay output signaling discharged or damaged battery
- Automatic diagnostic of battery status
- Mounting on DIN35
- Passive cooling



The 48VDC backup industrial power supplies suitable for indoor and outdoor applications. Due to the high charging current of up to 5A, the power source is also suitable for applications powered by public lighting.

Available models

Order name	Order code
PB7-485A/S	4-100-120



Technical parameters

POWER INPUT

Input voltages	115 - 230 - 277 VAC (90 - 135 VAC / 180 - 305 VAC)
Inrush current ($V_n - I_n$ nominal load) I_{2t}	$\leq 16 \text{ A} \leq 5 \text{ msec}$
Frequency	47 - 63 Hz
Input Current (115 - 230 VAC)	5 - 2.5 A (Internal not replaceable fuse 6.3A)
Recommended external fuse	16 A (charakteristika B)

48 VDC OUTPUT (INTERNAL POWER SUPPLY)*

Output voltage (V_n) / nominal current (I_n)	48 VDC / 5A (turn-on delay max. 1.5s)
Efficiency (at 50% of rated current)	$\geq 83 \%$ (power loss max. 28 W)
Start up with capacitive load	Yes
Short-circuit / overload / overheating protection	Yes (support start up with capacitive load)

BATTERY OUTPUT

Connection	4x 12 V batteries connected in series
Max. charging current	5 A \pm 5% (Adjusting 20 - 100 %)
Supported batteries	Lead Acid, GEL, AGM
Battery recovery mode	2 - 42 VDC
Reverse polarity battery protection	Yes
Sulfated battery check	Yes - by jumper
Max. quiescent current	$\leq 100 \text{ mA}$
Automatic charging curve	4 stage - IUoU

LOAD OUTPUT

Output voltage VDC (at I_n)	44 - 57.6 V (follow battery voltage)
Nominal current I_{load}	$1.1 \times I_n \text{ A} \pm 5\%$
Continuous current without / with battery	$I_{load} = I_n 5 \text{ A} / I_{load} = I_n + I_{batt} 10 \text{ A}$
Start from battery without main	With jumper or with RC cable



LOAD OUTPUT

Protection against total battery discharge	40 - 42 VDC (Battery almost flat alarm: 44 - 46 VDC)
--	--

RELAY OUTPUTS

Count	2
Type of contact	Switching
Max. Load	60 VAC / 1A, 30 VDC / 1A (resistive load)
Relay 1 (C-NC-NO) Relay max. 30 VDC / 1 A	Main power loss detection
Relay 2 (C-NC-NO) Relay max. 30 VDC / 1 A	Faulty / low battery

INPUT TEMPERATURE SENSOR

Connector	RJ-TEMP cable
-----------	---------------

GENERAL DATA

Weight	0.85 kg
Dimensions - h / w / d	115 x 100 x 135 mm
Pollution degree environment	2
Protection Class (EN/IEC 60529)	IP20
MTBF IEC 61709	Over 300.000 h
Connection terminal blocks screw type	2,5mm(24-14AWG)

ENVIRONMENT

Ambient temperature / storage temperature	-25 to +70°C / -40 to +85°C (passive cooling)
Humidity at 25 °C	Max. 95 % (non-condensing)
Altitude 0 to 2 000m / 2 000 to 6 000m	0 to 2 000m (no restrictions) / derating 5°C/1000m
Power derating over 50°C	- 2.5%(In) / °C

ELECTRICAL SAFETY

Protection class	Class I (with PE)
Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (Input / Earth, PE)	2000 VAC



METEL.EU
SECURITY & AUTOMATION

Short Catalog Sheet

ELECTRICAL SAFETY

Insulation voltage (Out Load, Battery / Earth, PE)	500 VAC
---	---------



Standards and protocols

Standard	Note
----------	------

EMC and safety

Standard	Level	Note
EN 61000-6-2		Immunity - industrial environment
EN 61000-6-4		Emissions - industrial environment
EN 62368-1		Safety requirements of Information technology equipment
EN60950		Safety standard for information technology equipment



METEL.EU
SECURITY & AUTOMATION

Short Catalog Sheet

Notes

- The manufacturer reserves the right to change technical parameters without prior notice.

Document created on 02/10/2026 02:35AM:10