

Uninterruptible power supply **PVUA**



General Data

Input rated voltage 24 Vdc
Output rated voltage 24 Vdc
Output rated current 10 - 20 A
Ambient temperature -25 °C to +60 °C
Efficiency up to 97 %
Protection index IP 20

Advantages

Electronic overcurrent and short-circuit protection
Active current limiting in the event of an error
Automatic detection of connected battery module
Reliable early warning signal when battery life expectancy is declining
Extended life expectancy through temperature controlled battery management
Service-friendly spring-loaded connector system
Isolated signal contact
Reverse polarity protection
Exhaustive discharge protection for batteries
Interface to visualise and adjust relevant data
Current and voltage monitoring
Active signal outputs for function monitoring
RS-232 interface
Reliable supply of industrial PC's

Applications

The charge- and control unit controls and monitors the battery module, warns reliably if the live expectancy of the battery is low and provides information on the charge status und the remaining time during buffering. All relevant data can be shown on the integrated display or accessed thought the build in data interface.

Standards

Uninterruptible power supply
to UL 60950, UL 508

Safety:
EN 60950, EN 60950 (SELV), EN 60204 (PELV)

EMC:
EN 61000-6-3 (Interference emissions), EN 61000-6-2 (Interference immunity)

Approvals



UL/CSA 60950 recognised (E213214), UL508 listed (E219022)



Uninterruptible power supply PVUA

Typ	PVUA 24/24-10	PVUA 24/24-20
Electrical data		
Input		
Input rated voltage	24 Vdc	24 Vdc
Input voltage range	18 - 29 Vdc	18 - 29 Vdc
Current input (idle/charging/max.)	0.1 / 0.8 / 10.8 A	0.1 / 1.5 / 21.5 A
Switching threshold for buffer mode	20 - 25.5 Vdc	20 - 25.5 Vdc
Output		
Output voltage normal operation	typ. U _{in} - 1 Vdc (10 A)	typ. U _{in} - 1 Vdc (20 A)
Output rated voltage, battery mode	typ. battery voltage - 1 Vdc (10 A)	typ. battery voltage - 1 Vdc (20 A)
Output rated voltage	24 Vdc	24 Vdc
Resistance to reverse feed max.	35 Vdc	35 Vdc
Output rated current	10.00 A	20.00 A
Internal fuse	15 A (slow-blow)	30 A (slow-blow)
Overload behaviour	Constant current with cyclic shutdown	Constant current with cyclic shutdown
Parallel connection	No	No
Serial operation	No	No
max. Power loss idling/nominal load	15 / 20 W	15 / 30 W
Efficiency	typ. 95.4 %	typ. 96.3 %
Storage medium		
Type of the storage medium	Accumulator, external	Accumulator, external
Rated charging voltage	24 Vdc	24 Vdc
Charge voltage range	26 to 29.5 Vdc	26 to 29.5 Vdc
Temperaturmachführung der Ladespannung	automatical or manual	automatical or manual
Charging current	max. 0.6 A	max. 1.0 A
Recommended storage medium	24 Vdc / 1.2 Ah, 3.2 Ah, 7 Ah, 12 Ah	24 Vdc / 7 Ah, 12 Ah
Signaling		
Operating status	LED green, LED red, LED yellow	LED green, LED red, LED yellow
Potential free signal contact	Changeover contact, configurable	Changeover contact, configurable
Active signal outputs	3 x 24 Vdc, 2 configurable	3 x 24 Vdc, 2 configurable
Remote shutdown in buffer mode operation	Yes (break contact)	Yes (break contact)
Display, interface	Yes, RS 232	Yes, RS 232
Approvals		
Approvals	cURus, cULus	cURus, cULus
Environment		
Ambient temperature	-10° C to +60° C	-10° C to +60° C
Storage temperature	-25 °C to +85 °C	-25 °C to +85 °C
Safety and protection		
Protection index	IP 20	IP 20
Accessory		
Connector for signalling	PV-CON (optional)	PV-CON (optional)
Adapter cable for interface	PV-KOK2 (optional)	PV-KOK2 (optional)
Side DIN rail mounting	PV-TS35M (optional)	PV-TS35M (optional)
Direct screw fastening plate for lateral mounting	PV-WB2 (optional)	PV-WB2 (optional)
Order numbers		
Order Number	PVUA 24/24-10	PVUA 24/24-20

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2



Uninterruptible power supply **PVUA**

Mechanical data	30			30			30			30		
	Typ	Terminals input, (spring clamp terminal, pluggable)	Terminals output, (spring clamp terminal, pluggable)	Terminals signalling, (spring clamp terminal, pluggable)	Terminals storage medium, (spring clamp terminal, pluggable)	Mounting position	Fixing method	Weight	Dimension picture (in mm)	A	B	C
PVUA 24/24-10	max. 2.5 mm ²	max. 2.5 mm ²	max. 0.5 mm ²	max. 2.5 mm ²	vertical	DIN Rail system TS35	0.80 kg	1	40	163.5	127	
PVUA 24/24-20	max. 10 mm ²	max. 10 mm ²	max. 0.5 mm ²	max. 10 mm ²	vertical	DIN Rail system TS35	0.80 kg	2	57	163.5	127	

Dimension pictures

