

Uninterruptible power supply PVUA 24/24-20



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 visualize and adjust relevant data
Current and voltage monitoring
Active signal outputs for watchdog functions
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 life expectancy of the battery is low and provides information on the charge status and the remaining time during buffering. All relevant data can be shown on the integrated display or accessed through the built-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, UL508 listed



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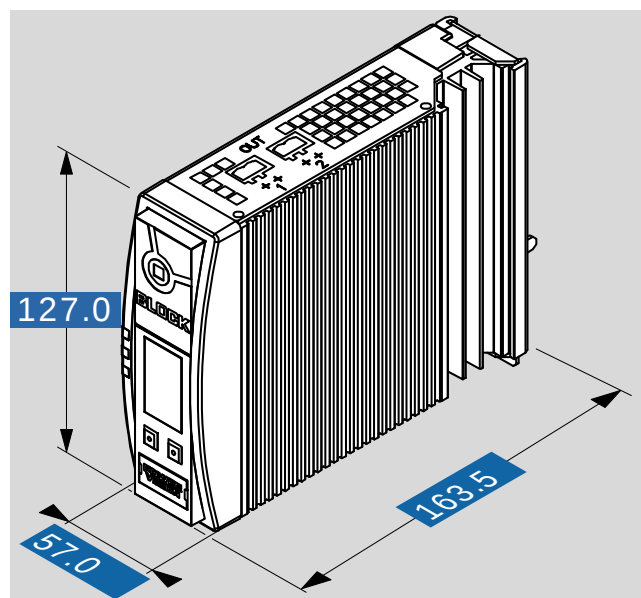
Electrical data

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



Mechanical data

Type	PVUA 24/24-20
Terminal and mounting	
Connections input, (spring clamp terminal, pluggable)	max. 10 mm²
Connections output, (spring clamp terminal, pluggable)	max. 10 mm²
Connections signalling, (spring clamp terminal, pluggable)	max. 0.5 mm²
Connections storage medium, (spring clamp terminal, pluggable)	max. 10 mm²
Mounting position	vertical
Fixing method	DIN Rail system TH 35
Measures and weights	
Weight	0.80 kg



Subjects to change.