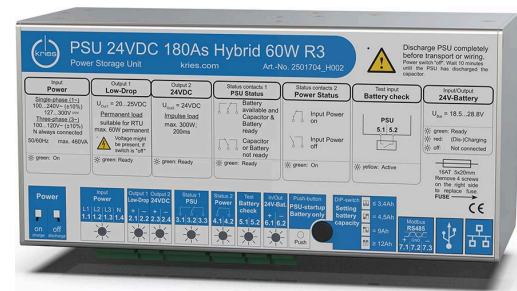


PSU_24V_Hybrid_60W_lowdrop

Maintenance minimized UPS solution

PSU-Hybrid is the reliable UPS solution for remote and automated stations and combines capacitor buffers and batteries in one unit.



Properties

PSU-Hybrid, the reliable UPS solution for remote and automated stations.

Combined capacitor / battery UPS for supply and buffering of pulse and constant load
continuous loads- Load capacity: 60 W continuous + 300 W pulse load + 180 As reserve buffer in case of empty battery- Continuous load output suitable for telecontrol devices, protection devices (fed from battery)- Pulse load output suitable for disconnecter motors, trip coils (fed from capacitor)- Capacitor reserve buffer ensures emergency operation in case of discharged or defective battery- Application example: Battery with 12 Ah on motor and remote control and protection technology-> 3, 75 h buffering 60 W + at least 50 switching operations 300 W + reserve buffer in case of empty battery over approx. 15 sec

Extended battery buffer time / life, additional reserve buffer

- the combination of battery buffer for continuous loads and capacitor as pulse and reserve buffer protects the battery and significantly extends the service life- tests showed twice the battery life compared to conventional UPSs

Efficiency comparison

PSU hybrid compared to standard UPS with the same battery size (1.3 Ah). Result: the PSU-Hybrid offers twice the continuous load buffer time for frequent switching cycles and still 30% longer for few switching cycles. Furthermore, the PSU-Hybrid offers between 50% and 100% more pulse load cycles compared to conventional UPSs with the same battery size

Inputs and outputs for remote control connection

Output for capacitor monitoring and battery status Remote check input for battery

Undervoltage protection

The "low-drop" version prevents voltage dips of the regulated voltage output at very high load peaks due to motor starting currents.



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Variants

Item number	Description
2501704	PSU 24VDC 180As Hybrid 60 W
2501704_H001	PSU 24VDC 180As Hybrid 60 W Low-Drop

Technical Data

Device data

Article number	2501704_H001
Product designation	PSU 24VDC 180As Hybrid 60 W Low-Drop

Housing

Case height x width x depth	105 x 225 x 110 mm
Installation type	C-Rail mounting
Housing material	Aluminum

Operating conditions

Operating temperature	-25°C ... 60°C
Storage temperature	-30°C ... 70°C
Protection class	IP42

Communication

Technical data input 1	Start Statusabfrage Batteriezustand
Technical data signal output 1	Battery and capacitor status
Technical data signal output 2	AC/DC auxiliary voltage availability

Power supply

Auxiliary power supply	Einphasig: 100 ... 240 VAC (±10 %) oder 127 ... 300 VDC Dreiphasig: 100 ... 120 VAC (±10 %)
Power consumption	460 W
Battery type	Lead battery rechargeable
Battery data	2x 12V, verschiedene Größen verfügbar z.B. 3,4 Ah / 4,5 Ah / 7,2 Ah / 12 Ah
Capacitor buffer	✓
Capacitor data	Capacity 8.3 F; Charge 180 As; Energy 2400 Ws



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Power supply

Technical data output 1	24 VDC, unregulated, capacitor only max. 300 W pulse load+ 180 As reserve buffer
Technical data output 2	24 VDC; 60 W continuous load+ max. 300 W pulse load+ 180 As reserve buffer; low drop protection

Article number	Product designation
2500436	Blei Akku in Vlies-Technik 12V 1,3 Ah
2500437	Blei Akku in Vlies-Technik 12V 2,2 Ah
2500438	Blei Akku in Vlies-Technik 12V 3,4 Ah
2502008	Blei Akku in Vlies-Technik 12V 4,5 Ah
2501299	Blei Akku in Vlies-Technik 12V 7,2 Ah
2502009	Blei Akku in Vlies-Technik 12V 9,0 Ah
2501296	Lead acid battery in fleece technology 12V 12 Ah
2502126	Cable set for PSU Hybrid battery 0,5m 16A fuse

