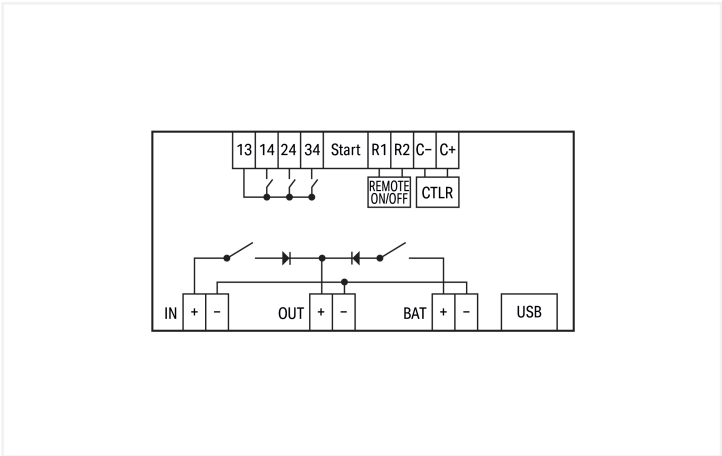
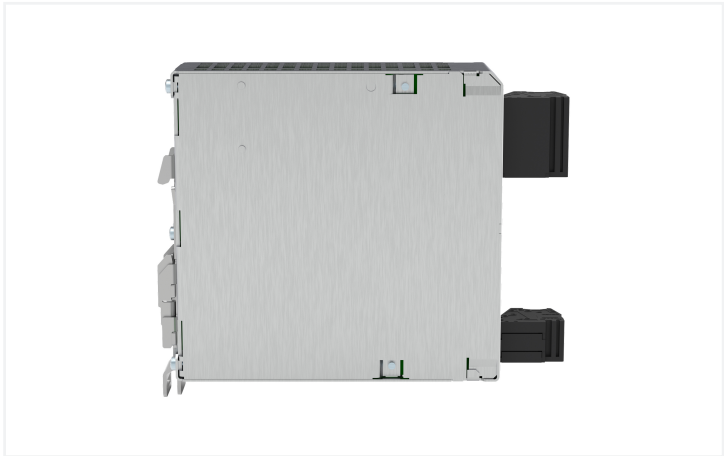




Features:

- DC UPS module for building an uninterruptible power supply (UPS)
- Potential-free contacts for functional monitoring
- Remote function via digital signals
- Active signal outputs for functional monitoring
- Parallel operation of multiple connected storage modules possible
- Battery control for detecting battery type and status
- Configuration via USB-C

Technical data			
Input		Output	
Nominal input voltage $U_{i\,nom}$	24 VDC	Nominal output voltage $U_{o\,nom}$	24 VDC
Input voltage range	18 ... 30 VDC	Output voltage range	18 ... 30 VDC
Nominal mains frequency range	0 Hz	Nominal output current $I_{o\,nom}$	40 A
Input current I_i	$\leq 0.1\text{ A}$ (no load); $\leq 7\text{ A}$ (charging); $\leq 40\text{ A}$ (max.)		



Energy storage systems	
Memory type	Lead-acid fleece

Signaling and Communication	
Signaling	3 x Isolated relay contact, configurable for alarm/battery mode/charging mode 1 x Digital input for start in battery mode 1 x Break contact for remote shutdown in buffer operation 3 x Status LED (red/yellow/green)
Operation status indicator	Green LED (DC OK) Yellow LED (charge/buffer mode) Red LED (error)
Configuration options	USB-C (socket); USB 2.0
Communication/interfaces	Integrated communication bus

Circuit Protection	
Internal fuse	No

Safety and protection	
Protection class	I
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel operation	No
Series operation	No

Connection Data			
Connection 1		Connection 2	
Connection type	Input/output/external energy storage	Connection type	Signaling
Connection technology	CAGE CLAMP®	Connection technology	CAGE CLAMP®
WAGO connector	WAGO 831 Series	WAGO connector	WAGO 2092 Series
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG	Solid conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG	Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm²	Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm²	Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²
Strip length	13 ... 11 mm / 0.51 ... 0.43 inches	Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data	
Width	45 mm / 1.77 inches
Height	127 mm / 5 inches
Depth from upper-edge of DIN-rail	128.5 mm / 5.06 inches

Mechanical data	
Mounting type	DIN-35 rail



Material data		
Fire load		0 MJ
Weight		600 g

Environmental requirements		
Ambient temperature (operation)		-40 ... +70 °C
Ambient temperature (storage)		-40 ... +85 °C
Relative humidity		5 ... 96 % (no condensation permissible)

Standards and Specifications		
Conformity marking		CE
Standards/specifications		EN 61010-1 (SELV) EN 61010-2-201 (PELV) UL 61010
Standards/specifications (pending)		DNV

Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4066966639353
Customs tariff number		85044060900

Product Classification		
UNSPSC		39121006
ETIM 9.0		EC000382
ETIM 10.0		EC000382
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance			
2685-2001/100-240			

Documentation

Instruction Leaflet			
USV-Lade- und -Kontrolleinheit; Eingangsspannung DC 24 V	16.04.2024 04.02.2025	pdf 1521.77 KB	

CAD/CAE-Data

CAD data	
2D/3D Models	
2685-2001/100-240	

1 Compatible Products

1.1 Product Expansions

1.1.1 Uninterruptible power supply

Item No.: 787-871 Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control	Item No.: 787-873 Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 12 Ah capacity; with battery control	Item No.: 787-872 Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control	Item No.: 787-1671 Lead-acid AGM battery module; 24 VDC input voltage; 5 A output current; Capacity: 0.8 Ah; with battery control
Item No.: 787-876 Lead-acid AGM battery module; 24 VDC input voltage; 7.5 A output current; 1.2 Ah capacity; with battery control	Item No.: 787-878/000-2500 Pure Lead Battery Module; 24 VDC input voltage; 20 A output current; Capacity: 2.5 Ah; with battery control	Item No.: 787-878/001-3000 Pure Lead Battery Module; 24 VDC input voltage; 40 A output current; Capacity: 13 Ah; with battery control	

1.2 Optional Accessories

1.2.1 General accessories

1.2.1.1 Electronic circuit breaker

Item No.: 787-3664 Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact	Item No.: 787-3668 Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact



1.2.2 Power supply

1.2.2.1 Power Supply



Item No.: 2587-2146
Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 10 A output current; DC-OK LED



Item No.: 2587-2147
Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 20 A output current; DC-OK LED



Item No.: 2587-2144
Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

1.2.3 Tool

1.2.3.1 Operating tool



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured