Data Sheet | Item Number: 2685-2001/100-240

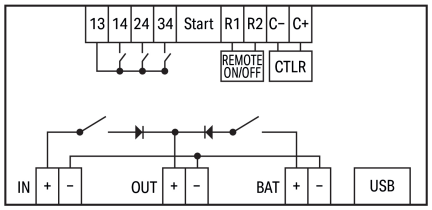
UPS charger and controller; Lead Fleece; 24 VDC output voltage; 40 A output current; for external Storage; communication capability

https://www.wago.com/2685-2001/100-240









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

Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load); ≤ 7 A (charging); ≤ 40 A (max.)

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	18 … 30 VDC
Nominal output current $I_{o\,nom}$	40 A

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 type	Input/output/external energy storage
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 … 10 mm² / 20 … 8 AWG
Fine-stranded conductor	0.5 … 10 mm² / 20 … 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 … 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 … 6 mm²
Strip length	13 … 11 mm / 0.51 … 0.43 inches

Connection 2

Connection type	Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2092 Series
Solid conductor	0.2 … 2.5 mm² / 24 … 12 AWG
Fine-stranded conductor	0.2 … 2.5 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
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

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Material data

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 Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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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

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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