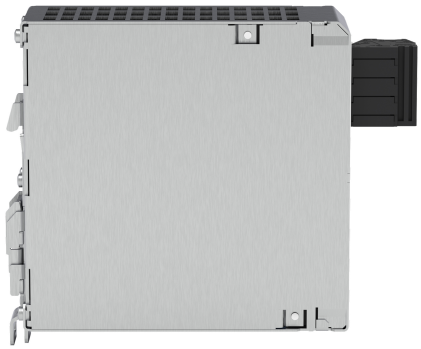
Data Sheet | Item Number: 2685-1001/601-220

UPS Integrated; CAP; 24 VDC output voltage; 20 A output current; 0.47 Wh capacity; communication capability

https://www.wago.com/2685-1001/601-220







Features:

- DC UPS module for building an uninterruptible power supply (UPS)
- Potential-free contacts for functional monitoring
- Remote function via digital signals
- Integrated memory expandable via additional modules
- Configuration via USB-C

Technical data

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	23.5 … 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load); ≤ 4 A (charging); ≤ 44 A

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	22 … 28 VDC
Nominal output current $I_{o\,nom}$	20 A; 40 A

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Energy storage systems

Buffer time	41 s (1 A) / 1 s (20 A)
Memory type	Supercaps
Battery capacity	0.0196 Ah; 0.4704 Wh; 1.69344 kJ
Charging time (typ.)	4.3 min

Signaling and Communication

Signaling	2 x Isolated relay contact (max. 30 VDC; 1 A) 3 x LED (green/red/yellow)
Operation status indicator	Green LED (DC OK) Yellow LED (warning) Red LED (error)
Configuration options	USB-C (socket); USB 2.0
Communication/interfaces	1 x digital input for remote ON/OFF

Safety and protection

Isolation voltage (connectors – housing)	0.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Parallel operation	No
Series operation	No

Connection Data

Connection 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 1.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 1.5 mm² / 28 … 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 1.5 mm²
Strip length	6 … 7 mm / 0.24 … 0.28 inches

Connection 2

Connection type	Relay
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 733 Series
Solid conductor	0.08 … 2.5 mm² / 28 … 20 AWG
Fine-stranded conductor	0.08 … 0.5 mm² / 28 … 20 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 0.34 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 0.34 mm²
Strip length	5 … 6 mm / 0.2 … 0.24 inches

Connection 3

Connection type	Communication
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 713 Series
Solid conductor	0.08 … 1.5 mm² / 28 … 16 AWG
Fine-stranded conductor	0.08 … 1.5 mm² / 28 … 16 AWG
Strip length	6 … 7 mm / 0.24 … 0.28 inches

Physical data

Width	55 mm / 2.17 inches
Height	127 mm / 5 inches
Depth from upper-edge of DIN-rail	131.5 mm / 5.18 inches

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Mechanical data

Mounting type	DIN-35 rail

Material data

Weight	700 g

Environmental requirements

Ambient temperature (operation)	-25 … +70 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61140 UL 61010-1
Standards/specifications (pending)	DNV

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966633160
Customs tariff number	85044095900

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 2685-1001/601-220

Documentation

Instruction Leaflet

USV-Lade- und -Kontrolleinheit; Eingangsspannung DC 24 V	16.04.2024 04.02.2025	pdf 1592.75 KB

CAD/CAE-Data

CAD data

2D/3D Models 2685-1001/601-220

1 Compatible Products

1.1 Product Expansions

1.1.1 Uninterruptible power supply



Item No.: 2685-2501/603-240
UPS Storage module; CAP; 24 VDC output voltage; 40 A output current; 3.19 Wh capacity

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