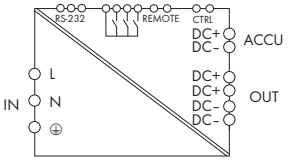
Switched-Mode Power Supply with Integrated UPS Charger and Controller *EPSITRON®*



- Primary switch mode power supply with integrated charger and controller for uninterruptible power supply (UPS)
- Battery control technology for smooth charging and predictive maintenance applications
- Potential-free contacts provide function monitoring
- Buffer time can be set on-site via rotary switch
- Parameter setting and monitoring via RS-232 interface
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, with Integrated UPS Charger and Controller, 24VDC / 5A	**787-1675**	1

Technical Data

Input:	
Nominal input voltage Vi nom	100 ... 240 VAC; 110 ... 370 VDC
Input voltage range	85 ... 264 VAC
Frequency	45 ... 65 Hz; 0 Hz
Input current Ii	1,1 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Output:	
Nominal output voltage Vo nom	24 VDC (SELV)
Output voltage range	23.0 ... 28.5 VDC (mains operation)
	18.5 ... 27.5 VDC (battery operation)
Output current Io	5 A
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Current limitation	1.1 x Io; TopBoost approx. 24 A
Buffer time	0.5 ...20 min, IPC mode or constant (adjustable)
Switch-on threshold (adjustable)	22 VDC (pre-configured),
	20 ... 25.5 VDC (configurable via
	software)
Final load voltage	26 ... 29.5 VDC temperature-controlled
	(fixed or adjustable)
Charging current	0.3 A ... 0.6 A
Recommended battery modules	787-876, 787-871, 787-872, 787-873
Operational indication	Green LED (DC OK), yellow LED (battery
	mode), red LED (warning/fault)
Signaling	3 x 24 VDC signal output,
	max. 200 mA in total
Remote input	to switch off buffer operation
LineMonitor, parameter setting	via RS-232 serial interface
Efficiency / power losses:	
Efficiency	89 % typ.
Power loss P_V	5.2 W (battery operation, 24 VDC, 5 A) /
	17 W (mains operation,
	230 VAC/24 VDC, 5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V (input side)
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	characteristic: B or C;
	An external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Derating	-3 % / K (> +50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage	
pri.-sec./pri.-gr./sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Reverse voltage protection	yes
Degree of protection	IP20 (acc. to EN 60529)
Feedback voltage	max. 35 VDC
Parallel operation	yes, max. 3 battery modules for buffer time
	extension
Connection and type of mounting:	
Wire connection	Input/Output/Signals:
	WAGO 721 Series
	Interface: WAGO 733 Series
Cross sections	Input/Output/Signals: 0
	.5 mm² ... 10 mm² / AWG 20 ... 10
	Interface:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input/Output/Signals:
	13 ... 15 mm / 0.55 in
	Interface: 8 ... 9 mm / 0.33 in
Line length	≤ 3 m (Output, Battery Control)
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	60 x 127 x 135.5
	Length from upper-edge of DIN 35 rail
Weight	885 g
Standards and approvals:	
Standards/Specifications	EN 60950, UL 60950, UL 508,
	EN 61204-3, DNVGL