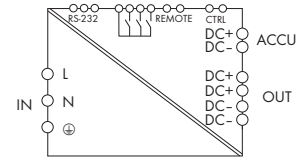


# Switched-Mode Power Supply with Integrated UPS Charger and Controller

## 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

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_i$ nom	100 ... 240 VAC; 110 ... 370 VDC
Input voltage range	85 ... 264 VAC
Frequency	45 ... 65 Hz; 0 Hz
Input current $I_i$	1,1 A at 230 VAC and 5 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
<b>Output:</b>	
Nominal output voltage $V_o$ nom	24 VDC (SELV)
Output voltage range	23.0 ... 28.5 VDC (mains operation)
	18.5 ... 27.5 VDC (battery operation)
Output current $I_o$	5 A
Adjustment accuracy	1 %
Residual ripple	< 100 mV (peak-peak)
Current limitation	1.1 x $I_o$ ; 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
<b>Efficiency / power losses:</b>	
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)
<b>Fuse protection:</b>	
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

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, with Integrated UPS Charger and Controller, 24VDC / 5A	787-1675	1
<b>Technical Data</b>		
<b>Environmental requirements:</b>		
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)	
<b>Safety and protection:</b>		
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	
<b>Connection and type of mounting:</b>		
Wire connection	Input/Output/Signals: WAGO 721 Series Interface: WAGO 733 Series	
Cross sections	Input/Output/Signals: 0 .5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / AWG 20 ... 10 Interface: 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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)	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	60 x 127 x 135.5	
	Length from upper-edge of DIN 35 rail	
Weight	885 g	
<b>Standards and approvals:</b>		
Standards/Specifications	EN 60950, UL 60950, UL 508, EN 61204-3, GL *	
	(* pending)	