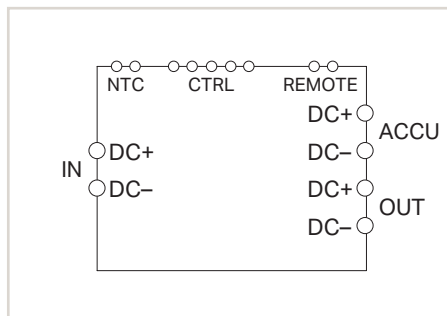
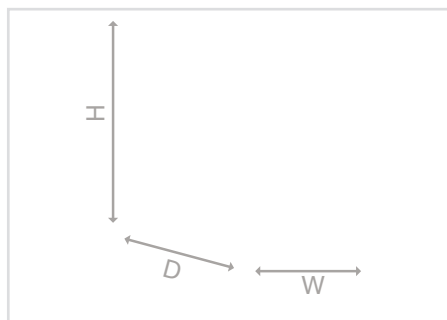


DC UPS Module; 24 VDC / 40 A



DC UPS Module; Input voltage: 24 VDC;
Output voltage: 24 VDC; Output current: 40 A

	Item No.	Pack. Unit
	787-915	1



Features:

- DC UPS module for uninterruptible power supply (UPS)
- Potential-free contacts provide function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery internal resistance measurement for diagnosing batteries, including connection cable and fuse

Note:

For North America: Use only batteries with appropriate safety approvals!

Input

Nominal input voltage $U_{i, \text{nom}}$	24 VDC
Input voltage range	22 ... 28 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.16 A (no load running); ≤ 4 A (charging); ≤ 44 A

Output

Nominal output voltage $U_{o, \text{nom}}$	24 VDC
Output voltage range	U_i (rated operation); 19.5 ... 26.5 VDC (unregulated battery voltage in buffer mode)
Nominal output current $I_{o, \text{nom}}$	40 A

Energy Storage Systems

Buffer time	Load-dependent
Switch-on threshold (adjustable)	21.5 ... 22.5 VDC
Charging current	1 ... 4 A (adjustable in 1 A steps via DIP switch; Default setting: 2 A)
End-of-charge voltage	26.4 ... 29 VDC (temperature controlled with NTC; without temperature sensor: 27.2 V)
Recommended battery module	Type: VRLA 24 V; 7 ... 40 Ah

Signaling and Communication

Signaling	1 x Power LED (green); 1 x UPS LED (yellow); 1 x Warning LED (red); 2 x isolated relay contact (max. 30 VDC, 1 A)
Remote input	Switches buffer mode off

Efficiency/Power Losses

Power loss P_i	≤ 4 W (no load); ≤ 22.5 W (nominal load)
Efficiency	≥ 97 % (rated operation); ≥ 85 % (charging)

Fuse Protection

Internal fuse	T 6.3 A (charging circuit)
Recommended backup fusing	T 50 A

Safety and Protection/Environmental Requirements

Isolation voltage (connectors – housing)	500 VDC
Protection class/protection type	III / IP20 (per EN 60529)
Reverse voltage protection	Yes
Parallel operation/series operation	No/no
MTBF	600,000 h (+40 °C; per SN 29500)
Surrounding air temperature (operation)	0 ... +50 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Pollution degree	2

Connection Data

Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/output (solid/fine-stranded/AWG)	0.75 ... 16 mm² / 0.75 ... 25 mm² / 18 ... 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 ... 2.5 mm² / 0.08 ... 2.5 mm² / 28 ... 12 AWG

Geometric Data/Mechanical Data/Material Data

Width x height x depth (mm)	68 x 181 x 162; depth from upper-edge of DIN-rail
Mounting type	DIN-35 rail (EN 60715)
Weight	1100 g

Standards and Specifications

Approvals/standards/specifications	CE; EN 62368-1; EN 61000-6-2; EN 61000-6-3; CSA* (*pending)
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