

POWERSENSE[™]

TECHNICAL DATASHEET FOR THE DISCOS[®] POWER PACK MODULE

DESCRIPTION

The DISCOS[®] Power Pack module is part of the DISCOS[®] System. The DISCOS[®] Power Pack module is designed to give a stable and reliable power to the DISCOS[®] System.

The DISCOS[®] Power Pack module has been designed to keep the module alive for 4 hours during power outage. This is enough time to report to the central control centre any information from the power grid that can be useful in solving the power problem.

MAIN OPERATIONAL PARAMETERS

Class IV isolated 24 VDC

Intelligent charging, extending the battery life

TECHNICAL SPECIFICATIONS

Main electrical characteristics

Input supply voltage	115 VAC - 275 VAC
Input power	0.33 A at 50/60 Hz
Internal fuse	Yes, 0.3 A primary fuse
Output voltage	26 VDC +/- 0.5 VDC
Output voltage ripple	30 mV rms
Output short circuit protection	16 A

Ambient specifications

Operational temperature	-20°C to +75°C
Operating humidity (non-condensing)	25%-90% RH at +40°C

Operational life time

Designed for	15 years
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DESIGNED FOR

Emissions	EN 61000-6-3
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Immunity	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 61000-4-8
	EN 61000-4-11
	EN 61000-4-14
	EN 61000-6-2

Safety	IEC 61558-1
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Over-voltage class	IV
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CE mark	Complied
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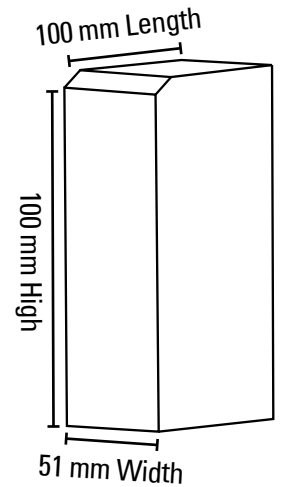
Approvals	UL 61010-1 Class IV
	CAN/CSA C22.2 No. 61010-1-04
	IEC 61010-1: 2001 Class IV
	EN 61010-1: 2001 Class IV
	IEC 60255-5
	IEC 60255-22-1
	IEC 60255-22-4

INSTALLATION AND WIRING

Connector type	Screw type
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CASE

Case material identification	Plastic (class II insulation)
Protection degree	IP 20
Approximate dimensions (W x L x H)	51 mm x 100 mm x 120 mm
Weight	319 g
Mounting hole distance	DIN-rail mounting



CHARGER MODULE CONNECTIONS

230 VAC terminals

Connect one phase (any) and neutral voltage measurement from MCB to the respective terminals 'L' and 'N' to establish a connection from station grounding system to terminal 'PE' (PE). This terminal is used for grounding charger.

Wiring: Minimum cross section 1.5 mm², maximum length 5 m, no shielding required.

24 VDC terminals

Connect + and - output from the DISCOS® Charger module to the respective terminals '+' and '-' on the DISCOS® Master module.

BATTERY

TECHNICAL SPECIFICATIONS

Main electrical characteristics

Battery power	24 VDC
Internal fuse	16 A exchangeable fuse

Ambient specifications

Operational temperature	-20°C to +85°C
Operating humidity (non-condensing)	25%-90% RH at +40°C

Operational life time

Designed for	10 years
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DESIGNED FOR

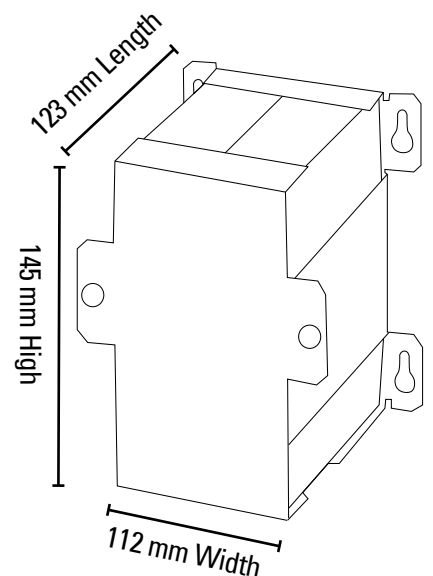
CE mark	Complied
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INSTALLATION AND WIRING

Connector type	Screw type
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CASE

Case material identification	Plastic (class II insulation)
Protection degree	IP 20
App. dimensions (W x L x H)	112 mm x 123 mm x 145 mm
Weight	3.5 kg
Mounting hole distance	DIN-rail mounting



BATTERY MODULE CONNECTIONS

24 VDC terminals

Connect + and - output from the DISCOS® Battery module to the respective terminals '+' and '-' on the DISCOS® Master module.



POWERSENSE[®]

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