Specifications

Lithium Power Plus 24 V 11.1 kWh

23-05-2022

ARTICLE NUMBER

40290205	Lithium Power Plus 24 V 11.1 kWh - Tower/Vertical

TECHNICAL SPECIFICATIONS

Chemistry	LiFePO4
Module configuration (12 V module)	2s4p
Number of modules	8
Nominal voltage	24 V
Nominal energy	11,1 kWh
Open circuit voltage	26,4 V
Nominal capacity	420 Ah
Cycle Life DOD 80%	>3500 cycles (at 1C charge / discharge, 80% DoD
Self discharge	<3% per month
Weight modules (excel. aluminum cabinet), kg (lb)	80 (176.4)

CHARGE PARAMETERS

Charge method	CCCV
Maximum charge voltage	29,8 V
Recommended charge voltage	28,6 V
Recommended charge current	210 A (0.5 C)
Continuous charge current	420 A (1.0 C)

DISCHARGE PARAMETERS

Discharge cut-off voltage	21,6V
Recommended discharge current	210 A (0.5C)
Maximum discharge current	420 A (1.0C)
Discharge pulse current	840 A (2.0C)
Fuse protection	2* 400 A T-class

MECHANICAL

Power connections	M1- stud, max 20NM
Cable connections	Option: Top or Bottom
IP-Protection class	IP 66 cell IP20 connection
Cooling	Natural air convection
Module material	PC-ABS, UL94-V0
Battery case material	Aluminium Powdercoat
Dimensions (l x w x h), mm	870 x 280 x 465 (540)
Dimensions (l x w x h), inches	34,3 x 11 x 18,3 (21,3")
Total weight module plus cabinet	±100-110 kg / 220-243 lbs

CONFIGURATION

Series configuration	Yes, up to 4 max
Parallel configuration	Yes, up to 2 max
Redundant mode	Yes, using double BIM

ENVIRONMENTAL

Operating temperature charge	0°C to 55 °C / 32°F to 131°F
Operating temperature discharge	-20°C to 55°C / -4°F to 131°F
Storage temperature	-20°C to 55°C / -4°F to 131°F
Humidity (Non-condensing)	<95%

SAFETY

Battery Management System (BMS)	External WP-BIM module
Balancing	Passive method
Communication CAN-Bus	whisperconnect/NMEA2000
EMC: Emission	EN-IEC 61000-6-3:2007/A1:2011/C11:2012
EMC: Immunity	EN-IEC 61000-6-1:2007
Low voltage directive	EN 60335-1:2012/AC:2014
Certifications	CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620(ESTRIN)
Shipping classification	UN3480