



# Specifications

## Lithium Power Plus 48 V 16.6 kWh

23-05-2022

### TECHNICAL SPECIFICATIONS

Chemistry	LiFePO4
Module configuration (12 V module)	4s3p
Number of modules	12
Nominal voltage	48 V
Open circuit voltage	52,8 V
Nominal capacity	315 Ah
Nominal energy	22,2 kWh
Cycle Life DOD 80%	>3500 cycles (at 1C charge / discharge, 80% DoD)
Self discharge	<3% per month
Weight modules (excel. aluminum cabinet), kg (lb)	120 (264.6)

### CHARGE PARAMETERS

Charge method	CCCV
Maximum charge voltage	59,6 V
Recommended charge voltage	57,2 V
Recommended charge current	157.5 A (0.5 C)
Continuous charge current	315 A (1.0 C)

### DISCHARGE PARAMETERS

Discharge cut-off voltage	43,2 V
Recommended discharge current	157 A (0.5C)
Maximum discharge current	315 A (1.0C)
Discharge pulse current	630 A (2C 10 sec, SOC >60%)
Fuse protection	3*225 A T-class

### MECHANICAL

Power connections	M10 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	1260 x 280 x 465 (540)
Dimensions (l x w x h), inches	49,6 x 11 x 18,3 (21,3")
Total weight module plus cabinet	±150-160 kg / 331-353 lbs

## CONFIGURATION

Series configuration	No
Parallel configuration	No
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 45°C / -4°F to 113°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