SYNAPSE



SYNAPSE 5KO - LV

Features

- Warranty: 6000 cycles @ 90% DOD or 10 years (whichever comes first), up to 1C usage.
- 24hr RMA swap out.



SINGLE MODULE SYNAPSE 5KO - LV

Basic Parameters					
Battery Power	5kW				
Battery Rating	1C				
Cell Type	LiFeP04				
Overall Capacity	4.8kWh				
Max Min Voltage (BMS) UV-OV Protection	455 50 0/4				
- Voltage Range	45.5-58.4Vdc				
BMS Temperature Range	Discharge -20°C +55°C Charge 0°C +55°C*				
Max N° Batteries In Parallel	15				
Single Module Nominal Voltage	51.2Vdc				
Application	Low Voltage				
Modules Expandability	15 direct parallel (Stack max 5 units)				
Grade IP / IP Grade	IP30 (Indoor Use Only)				
Cluster Net Capacity	66 - 462kWh (with LV HUB for multi-cluster application)				
Voltage Range	46.5 - 58.4 Vdc				
Installation	Indoor, ventilated, away from flammable Gas or Liquids, Only with low Voltage inverters 40-58,54Vdc				
Dimensions	580 x 490 x 155mm				
Weight Of The Battery	46Kg				
Designation of Battery	IFpP/37/136/198/[16S]M/-20+60/90				
Max. Charge / Discharge Current	-100 +100A peak 130A				
Depth of Discharge	Up to 95 %				
Communication Interface	RS485, CAN, RS232, Wi-Fi & Bluetooth (with External device)				
Discharge Temperature (*)	-20 - + 65°C				
Charge Temperature (*)	-5 - + 55°C				
Standard Temperature Range (0C)	25°C ± 10°C				
Humidity	5%- 95% RH				
Altitude	< 3000 m				
Expected Cycle Life @ STC	> 6000 (25°C)				
Standards	EN IEC 61000-6-1: 2019				
	EN IEC 61000-6-2: 2019				
	EN IEC 61000-6-3: 2021				
	EN IEC 61000-6-4: 2019				
	IEC 62619 (CB) IEC 62368 RoHS Compliant				
Good Class	Dangerous Goods DG9 Category 3480				
UN Class	UN 38.3 - Lithium lon Battery				
Features	Pre - Charge + MOSFET Protection				
	Three Protection Levels, Real-Time Balancing, Adaptive Charge/				
	Discharge CAN Logic, 3-Steps Adaptive Charging Logic				
	2 x programmable DI / DO				
	Optional Device for monitoring & remote control with WeCo App for Android / iOS				
Warranty	6000 cycles @ 90% DOD or 10 years (whichever comes first), up to 1C usage				

{*)The above-mentioned temperatures are limited to the BMS ranges, such values are not intended to be covered by the performance warranty, always refer to the warranty terms and the installation manual before buying.

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 $[\]ensuremath{^{\star}}$ See Performance Warranty Terms and the Standard Test Conditions "STC"

 $[\]ensuremath{^{\star}}$ Product specifications are subject to change without further notice.



STACKABLE SYNAPSE 5KO - LV

Battery Module	2	3	4	5	5+5+5**	
Battery System Capacity (kWh)	8.8	13.2	17.6	22.0	67.5	
Voltage Range (Vdc)	46,5 - 58,4					
Dimension (D x W x H) (mm)	580 x 492 x 310	580 x 492 x 465	580 x 492 x 620	580 x 492 x 775	3x(580 x 492 x 310)	
Weight (Kg)	92 Kg	138 Kg	184 Kg	230 Kg	690 Kg	
Depth of Discharge	95%					
Charge / Discharge Current	172	243	288	315	945	
(Recommended)	172	243	200	313	945	
Communication	RS485, CAN, RS232, Wi-Fi (with External device)					
IP Rating	IP30					
Working Temperature (°C) (*)	-20 °C - +55 °C					
Standard Working Temperature Range (°C)	25 °c ± 10°c					
Storage Temperature (°C)	-10 + 40 (°C) @ 1 month					
Humidity	5 % - 95 % non-condensing					
Altitude (m)	< 3000					
Expected Cycle Life @ STC (*)	>6000 {25°C)					
Standards	CB/ IEC626 l 9 / IEC62368 /CE / UN38.3					
Monitoring	External Wi-Fi monitoring Dongle suitable for single battery or cluster					



Emergency Number:

+27 21 555 0570

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