Commeo energy storage block high energy



esbC15ERSA

FOR STAND ALONE BATTERY SYSTEMS - NOT EXTENDABLE

technical data

technology description	pluggable Lithium ion battery (NMC)	
nom. energy	1.5 kWh	
nom. voltage	51.1 V ===	
nom. capacity (0.2C charge/discharge)	29.5 Ah	
nom. discharge power	1.5 kW (cont.)	
	3.0 kW (puls)	
energy density	220 Wh/l	
specific energy	144 Wh/kg	
cycle life (80 % SoH; 0.5C charge, 1C discharge)	> 500	
	> 1000 @ 90 % DoD and 25 °C	
operating voltage range	42.1 – 58.8 V 	
installation site	indoors, non-condensing	
international protection code	IP20	
international protection marking	2	
operating temperature	0 - 40° C	
expected operating life (calendric)	12 years	
dimensions	200 x 200 x 170 mm	
weight	10.4 kg	
communication interface	CAN-Bus	
expected operating life (calendric) dimensions weight	12 years 200 x 200 x 170 mm 10.4 kg	

operation window

operation mode			guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)
charge current			14.75 A (0.5C)
end-of-charge voltage			58.8 V ===
end-of-charge current			2.95 A (0.1C)
discharge current			59 A (2C)
end-of-discharge voltage			42.1 V ===
rel. humidity			< 80% (temperature-dependent), non-condensing
operating temperature range		!	0 – 45 °C
max. operating current of the contacts		contacts	200 A
temperature range	transport storage	< 1 month < 6 month	-20 - 45 °C -20 - 25 °C
max. operating altitude			5 000 m above sea level
relay switching @ 60 V ===	g cycles	mechanical -2 A < I < 0 I < -60 A	400 000 50 000 1



The user manual has to be strictly followed. The operating window of the battery has to be complied with. The warranty terms agreed upon are bound to the compliance.