

Commeo energy storage block Energy esbL71E

FOR HIGH VOLTAGE SYSTEMS

commeo
energy storage solutions®

system component
for battery systems

technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	7.1 kWh
nom. voltage	51.1 V ===
nom. capacity (0.2C charge 0.2C discharge)	139 Ah
nom. discharge power	6.3 kW
energy density	162.2 Wh/l
specific energy	133.2 Wh/kg
cycle life until 80 % SoH (0.5C charge 1C discharge 25 °C)	> 3.000 @ 100 % DoD
installation site	indoors non-condensing
IP code	IP20
protection class	2
expected operating life (calendric)	12 years
dimensions (W x H x D)	265 x 310 x 533 mm
weight	approx. 53.3 kg
communication interface	CAN-Bus

operating window

operation mode	guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)		
charge current	48.65 A (0.35C)		
end-of-charge current	7 A (0.05C)		
discharge current	125.1 A (0.9C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	10 – 40 °C charge 10 – 40 °C discharge		
operating voltage range	43.5 – 58.6 V ===		
max. operating current of the contacts	200 A		
temperature range	transport storage	< 1 month < 6 month	-20 – 45 °C -20 – 25 °C
max. operating altitude	2 000 m above sea level		



The user manual has to be strictly followed. The operating window of the battery has to be complied with.

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