

# Commeo energy storage block Longlife

esbL44E

FOR HIGH VOLTAGE SYSTEMS

**commeo**  
energy storage solutions

system component  
for battery systems

## technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	4.45 kWh
nom. voltage	51.8 V ===
nom. capacity (0.2C charge   0.2C discharge)	86 Ah
nom. discharge power	10.2 kW
energy density	104.3 Wh/l
specific energy	83.6 Wh/kg
cycle life up to 80 % SoH (1C charge   2C discharge   25 °C)	> 10.000 @ 80 % 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 520 mm
weight	53.3kg
communication interface	CAN-Bus

## operation window

operation mode	guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)		
charge current	154.8 A (1.8C)		
end-of-charge current	4.3 A (0.05C)		
discharge current	197.8 A (2.3C)		
rel. humidity	< 80 % (temperature-dependent)   non-condensing		
operating temperature range	5 - 50 °C charge   5 - 55 °C discharge		
operating voltage range	43.5 - 58.6 V ===		
max. operating current of the contacts	200 A		
temperature range	transport storage	< 1 month	-20 - 45 °C
		< 6 month	-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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page 1/1  
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