

Commeo energy storage block Longlife

esbL54E

FOR HIGH VOLTAGE SYSTEMS

commeo
energy storage solutions®

system component
for battery systems

Technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	5.40 kWh
nom. voltage	51.4 V ---
nom. capacity	105.0 Ah
max. discharge power (at nom. voltage)	9.7 kW
energy density	126.4 Wh/l
specific energy	100.6 Wh/kg
usable DoD	93 %
expected cycles	(< 30 °C 80 % SOH) > 6,500 @ 90 % DoD > 10,000 @ 80 % DoD
installation site	indoors non-condensing
IP Code	IP 20
protection class	2
expected operating life (calendric)	> 12 years
dimensions (W x H x D)	265 x 310 x 520 mm
weight	approx. 53.7 kg
communication interface	CAN-Bus
EU directives	2006/66/EG (BattG), 2014/30/EU (EMC), 2014/35/EU (LVD), 2011/65/EU, 2015/863/EU (RoHS)
norms and standards	DIN EN 62619, UN 38.3, DIN EN 61010-1, DIN EN 61000-6-2/4, DIN EN ISO 13849-1

Operating window

operation mode	guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)		
max. charge current	190.0 A (1.8C)		
end-of-charge current	5.3 A (0.05C)		
max. discharge current	190.0 A (1.8C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 – 50 °C charge 5 – 50 °C discharge		
operating voltage range	43.6 – 56.8 V ---		
temperature range	transport	< 1 month	-20 – 45 °C
	storage	< 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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