

Commeo energy storage block high energy

esbC141PR / esbC141ER

FOR 48 V SYSTEMS

commeo
energy storage solutions®

system component
for battery systems

technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	1.45 kWh
nom. voltage	52.7 V ===
nom. capacity (0.2C charge 0.2C discharge)	27.5 Ah
max. discharge power	2.9 kW
energy density	213.2 Wh/l
specific energy	135.5 Wh/kg
cycle life until 80 % SoH (0.5C charge 2C discharge 25 °C)	> 1500 @ 80 % DoD
installation site	indoors non-condensing
IP code	IP20
protection class	2
expected operating life (calendric)	12 years
dimensions	approx. 200 x 200 x 170 mm
weight	approx. 10.7 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)		
max. charge current	13.75 A (0.5C)		
end-of-charge current	1.4 A (0.05C)		
max. discharge current	55 A (2C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 - 40 °C charge 5 - 50 °C discharge		
operating voltage range	43.6 - 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	5 000 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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