

Commeo energy storage block high energy

esbC141S / esbC141P / esbC141E

FOR HIGH VOLTAGE 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
nom. discharge power	2.9 kW
energy density	213.2 Wh/l
specific energy	145 Wh/kg
cycle life until 80 % SoH (0.5C charge 2C discharge 25 °C)	> 1000 @ 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)	200 x 200 x 170 mm
weight	10 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	13.75 A (0.5C)	
end-of-charge current	1.4 A (0.05C)	
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 < 1 month storage < 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.

Commeo GmbH

Otto-Lilienthal-Straße 8
49134 Wallenhorst, Germany

www.commeo.com

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