

Commeo energy storage block high energy

esbC15S / esbC15P / esbC15E

FOR HIGH VOLTAGE SYSTEMS

commeo
energy storage solutions®

system component
for battery systems

technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	1.5 kWh
nom. voltage	50.4 V ===
nom. capacity (0.2C charge 0.2C discharge)	29.5 Ah
nom. discharge power	3 kW
energy density	220 Wh/l
specific energy	144 Wh/kg
cycle life to 80 % SoH (0.5C charge 1C discharge 25 °C)	> 1500 @ 80 % DoD
installation site	indoors non-condensing
international protection code	IP20 (increasing degree of protection by using optional accessories)
international protection marking	2
expected operating life (calendric)	12 years
dimensions	200 x 200 x 170 mm
weight	10.4 kg
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	14.75 A (0.5C)		
end-of-charge current	3 A (0.1C)		
discharge current	59 A (2C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 – 40 °C load 5 – 50 °C unload		
operating voltage range	42.2 – 58.6 V ===		
max. operating current of the contacts	200 A		
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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