

# Commeo energy storage block high power

esbC11S / esbC11P / esbC11E

FOR HIGH VOLTAGE SYSTEMS

**commeo**  
energy storage solutions®

system component  
for battery systems

## technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	1.1 kWh
nom. voltage	50.4 V ===
nom. capacity (0.2C charge   0.2C discharge)	21.5 Ah
nom. discharge power	4.4 kW
energy density	162 Wh/l
specific energy	110 Wh/kg
cycle life until 80 % SoH (0.5C charge   1C 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. 10.4 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	21.5 A (1C)
end-of-charge current	2.2 A (0.1C)
discharge current	86 A (4C)
rel. humidity	< 80 % (temperature-dependent)   non-condensing
operating temperature range	5 – 40 °C charge   5 – 50 °C discharge
operating voltage range	47.8 – 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.

**Commeo GmbH**

Otto-Lilienthal-Straße 8  
49134 Wallenhorst, Germany

[www.commeo.com](http://www.commeo.com)

page 1/1  
revision 3 - October 2020