

Commeo energy storage block High Power

esbC112S / esbC112P / esbC112E

FOR HIGH VOLTAGE SYSTEMS

commeo
energy storage solutions®

system component
for battery systems

Technical data

technology description	pluggable Lithium ion battery (NMC)
nom. energy	1.10 kWh
nom. voltage	52.1 V $\approx$
nom. capacity	21.1 Ah
max. discharge power (at nom. voltage)	4.4 kW
energy density	161.8 Wh/l
specific energy	108.4 Wh/kg
expected cycles	(0.8C charge 4C discharge 25 °C 80 % SOH) > 1,200 @ 100 % 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)	200 x 200 x 170 mm
weight	approx. 10.2 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	16.9 A (0.8C)		
end-of-charge current	1.1 A (0.05C)		
max. discharge current	84.4 A (4C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 – 45 °C charge 5 – 55 °C discharge		
operating voltage range	47.6 – 58.3 V $\approx$		
temperature range	transport	< 1 month	-20 – 40 °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

page 1/1
revision 4

Errors and omissions excepted - valid until revoked

19-039EN

09/2022