Commeo HV Smart Energy, 800 V, 24 kWh

esr20U800B8C152E16

commeo energy storage solutions

technical data

technology description	Lithium ion battery system (NMC)	
communication interface	CAN-Bus | Ethernet	
nom. energy	24 kWh	
nom. voltage	806 V ⎓	
nom. capacity (0.2C charge | 0.2C discharge)	29.5 Ah	
max. discharge power	48 kW	
cycle life until 80 % SoH (0.5C charge | 1C discharge | 25 °C)	1500 @ 80 % DoD	
expected operating life (calendric)	12 years	
installation site	indoors | non-condensing	
IP Code	IP20 (increasing IP Code by using optional accessories)	
protection class	2	
interconnection	1P16S	
standard scope of delivery	energy storage blocke esbC152E control unit ccuHV80U Rittal industry cabinet (600 x 2000 x 600 mm) excl. base accessories	16 qty 1 qty 1 qty
weight	approx. 340 kg	

operation window

operation mode			guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)
max. charge current			14.8 A (0.5C)
end-of-charge current			3 A (0.1C)
max. discharge current			59 A (2C)
rel. humidity			< 80 % (temperature-dependent) | non-condensing
operating temperature range			5 – 40 °C charge | 5 – 50 °C discharge
operating voltage range			676 – 938 V ⎓
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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19-028EN
01/2021