

Commeo HV-C Smart Power System | 834 V | 35.2 kWh

esr20U800B6C112E12S20

Technical data

technology description	Lithium ion battery system (NMC)		
communication interface	CAN-Bus Ethernet		
nom. energy	35.2 kWh		
nom. voltage	834.0 V $\pm$		
nom. capacity	42.2 Ah		
max. discharge power (at nom. voltage)	140.8 kW		
expected cycles	(0.8C charge 4C discharge 25 °C 80 % SOH) 1,200 @ 100 % DoD		
expected operating life (calendric)	12 years		
installation site	indoors non-condensing		
IP Code	IP 20 (increasing IP Code by using optional accessories)		
protection class	2		
interconnection	2P16S		
standard scope of delivery	energy storage block esbC112S		20 qty
	energy storage block esbC112E		12 qty
	control unit ccuHV200U		1 qty
	Rittal industry cabinet (600 x 2000 x 600 mm) excl. base		1 qty
	accessories		
weight	approx. 484.8 kg		
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	33.8 A (0.8C)		
end-of-charge current	2.1 A (0.05C)		
max. discharge current	168.8 A (4C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 – 45°C charge 5 – 55 °C discharge		
operating voltage range	762.0 – 932.0 V $\pm$		
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.