

technical data

technology description	Lithium ion battery system (NMC)	
communication interface	CAN-Bus Ethernet	
nom. energy	53.5 kWh	
nom. voltage	622 V $\overline{=}$	
nom. capacity (0.2C charge 0.2C discharge)	86 Ah	
nom. discharge power	123 kW	
cycle life until 80 % SoH (1C charge 2C discharge 25 °C)	> 10.000 @ 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	1P12S	
standard scope of delivery	energy storage block esbL44E	12 qty
	control unit ccuHV200U	1 qty
	Rittal industry cabinet (800 x 2000 x 600 mm) excl. base	1 qty
	accessories	
weight	approx. 739.6 kg	

operating window

operation mode	guided by the State-of-Power (SoP) according to the specifications of the battery management system (BMS)		
max. charge current	154.8 A (1.8C)		
end-of-charge current	4.3 A (0.05C)		
max. discharge current	197.8 A (2.3C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	5 - 50 °C charge 5 - 55 °C discharge		
operating voltage range	513 - 703 V $\overline{=}$		
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.