

Technical data

technology description	Lithium ion battery system (NMC)		
communication interface	CAN-Bus Ethernet		
nom. energy	49.6 kWh		
nom. voltage	413.0 V V_{nom}		
nom. capacity	120.0 Ah		
max. discharge power (at nom. voltage)	79.4 kW		
usable DoD	100 %		
expected cycles	(< 35 °C 70 % SOH) > 6,500 @ 90 % DoD > 10,000 @ 80 % 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	1P8S		
standard scope of delivery	energy storage block esbL62E		8 qty
	control unit ccuHV200U		1 qty
	Rittal industry cabinet (800 x 2,000 x 600 mm) excl. base		1 qty
	Accessories		
weight	approx. 525.6 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	195.0 A (1.6C)		
end-of-charge current	6.0 A (0.05C)		
max. discharge current	195.0 A (1.6C)		
rel. humidity	< 80 % (temperature-dependent) non-condensing		
operating temperature range	-15 – 50 °C charge -15 – 50 °C discharge		
operating voltage range	349.0 – 465.0 V V_{nom}		
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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