

## technical data

technology description	Lithium ion battery system (NMC)		
communication interface	CAN-Bus   Ethernet		
nom. energy	48 kWh		
nom. voltage	806 V $\text{---}$		
nom. capacity (0.2C charge   0.2C discharge)	59 Ah		
max. discharge power	96 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	2P16S		
standard scope of delivery	energy storage block esbC152P		16 qty
	energy storage block esbC152E		16 qty
	control unit ccuHV160U		1 qty
	Rittal industry cabinet (600 x 2000 x 600 mm) excl. base accessories		1 qty
weight	approx. 500 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	29.5 A (0.5C)		
end-of-charge current	5.9 A (0.1C)		
max. discharge current	118 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 $\text{---}$		
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.