

SPECIFICATION

Model

PHENOLOGY 1.1



System

Nominal Capacity (BOL)	100 kWh
Depth of Charge / Discharge	0–100 %
Nominal Power	50 kW
Rated Grid Voltage	400 VAC
Rated Grid Frequency	50 Hz
PCS	SMA Sunny Island X50 (DC/AC)
PCS Communication Interfaces	LAN (Ethernet, Modbus/TCP)
External Dimensions (H x W x D)	2200 x 1120 x 2015 mm
Weight	2580 kg
Operating Temp. Range	-20 °C to +45 °C
Operating Humidity Range	0–95 %, non-condensing
Max Altitude	2000 m
(Ingress) Protection Level	IP54
Cooling / Climatization	Air cooled
Fire Suppression System	Gas Sensor, Heat Sensor Smoke Sensor, Aerosol

Cell

Chemistry	Sodium-ion (NFPP)
Rated Capacity	170 Ah
Nominal Voltage	2.85 V
Cycle Life	≥6000 Cycles

Battery Side (DC Side)

Configuration	1P208S
Nominal Voltage	592 VDC
Voltage Range	374-718 VDC

Certification

Safety	IEC 62619, IEC 62477, IEC 63056
EMC	IEC 61000-6-2, IEC 61000-6-4
Transportation	UN38.3
Environmental	RoHS, REACH, Cobalt free
Battery Regulation	EU 2023/1542



*Layout and specifications are subject to change as part of our continuous improvement process.