



Battery Specifications	
Model	SMILE-BAT-13.3P
Battery Type	LFP (LiFePO4)
System Weight	120 kg
Dimension (W x D x H)	610 x 236 x 812 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance Warranty, ≥ 8000 Cycle Life
Electrical	
Energy Capacity	13.34 kWh
Usable Capacity	13.34 kWh
Depth of Discharge (DoD)	100%
Nominal Voltage	48 V
Operating Voltage Range	45 ~ 54 V
Internal Resistance	≤ 20 mΩ
Operation	
Max. Charging Current	100 A (0.35C)
Max. Discharging Current	100 A (0.35C)
Operating Temperature Range	-10 °C ~ 50 °C*
Humidity	15% ~ 85%
BMS	
Modules Connection	1~6 in parallel (with expansion pack)
Power Consumption	<1 W (Work), <10 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN and RS-485 compatible
Certificate	
Transportation	UN38.3
Safety	IEC 62619 (Cell), IEC 62619 (Pack)
	*M/ban the temporature is below 0.°C or above 40.°C, the performance will be

Lucranton	CMII EF INIV
Inverter	SMILE5 INV
PV String Input Data	
Max. DC Input Power [W] The maximum DC input power for	6660
STC [W] (Small-scale Technology Certificates)	6600
Max. DC Voltage [V]	580
MPPT Voltage Range [V]	125~550
Starting Voltage [V]	125
Max. DC Current [A]	12/12
No. of DC Connectors	2
No. of MPPTs	2
DC Connector	MC4
Battery Input Data	
Nominal Voltage [V]	51.2
Max. Charging Voltage [V]	57.6
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
AC Output Data (On Grid)	
Nominal AC Power [VA]	5000
Max. AC Power [VA]	5000
Max. AC Current [A]	21.7
Nominal Output Voltage [V]	230
Nominal Output Frequency [Hz]	50/60
THDi	<3%
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)
AC Output Data (Buck-Up)	
Nominal AC Power [VA]	4600
Peak AC Power [VA]	5200, 2 sec
Nominal Output Voltage [V]	230
Nominal Output Frequency [Hz]	50/60
Efficiency	
Max. Efficiency	97.60%
Europe Efficiency	97.00%
MPPT Adaptation Efficiency	99.90%
Protection	
Residual Current Monitoring Unit	Integrated
Anti-islanding Protection	Integrated
AC Over Current Protection	Integrated
Insulation Monitoring	Integrated
General Data	integrated
Dimensions (WxHxD) [mm]	1604 x 610 x 236.6
Weight [kg]	17
Ambient Temperature Range [°C]	-10~50
Relative Humidity	0-95%
Protection Degree	IP65
Topology	High Frequency Isolation
Standby Losses [W]	<13
Cooling	Nature Convection
Noise Emission [dB]	<25
Monitoring	RS485; CAN; Wi-Fi
Standard Warranty [Years]	5
Certificates & Standards	
Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/.3, CEI 0-21, G59/3, RD 1699, NRS 097-2-1
EMC	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.27.3, CE10-21, G59/3, RD 1699, NRS 097-2-1 EN 61000-6-1/2/3/4
Safety Regulation	IEC 62109-1&-2, IEC 62477-1, IEC 62040.1.1, IEC 62116
Caroty Nogulation	1EO 02 100-103-2, 1EO 02477-1, 1EO 02040.1.1, 1EO 02110

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