

YOURSMARTENERGY

SMILE5

RESIDENTIAL SERIES

POWER

5 / 4.6 kW inverter

CAPACITY

2.9 / 5.7 / 10.1 / 13.3 kWh Battery Modular expandable to 80.0 kWh











5kW single phase hybrid inverter
Fast response
UPS ability
24/7 Monitoring

- S elf sufficient
- **M** odular battery
- Intelligent control
- L ong lifespan
- **E** ssential load protected
- **5** kW system



MILE5

•

•



Model	SMILE5				
System Specification					
Nominal Output Power	5000 W				
Capacity Range	2.9 ~ 17.2 kWh (96% DoD)	5.7 ~ 34.4 kWh (96% DoD)	10.1 ~ 60.6 kWh (96% DoD)	13.3 ~ 80.0 kWh (100% DoD)	
Usable Capacity Range	2.8 ~ 16.5 kWh	5.5 ~ 33.0 kWh	9.7 ~ 58.1 kWh	13.3 ~ 80.0 kWh	
Battery Chemistry	LFP (LiFePO4)				
IP Protection	IP65				
Warranty	5 Year Product Warranty, 10 Year Battery Warranty				
Inverter Technical Specification					
Model	SMILE5-INV	Rated Frequency		50 / 60 Hz	
Max. PV Input Power	7500 W	Phase		Single-Phase	
Max. PV Input Current	15 A / 15 A	Backup UPS		UPS	
Max. PV Input Voltage	550 V	Display		LCD	
MPPT Number	2	Communication		thernet / WIFI	
MPPT Voltage Range	70 ~ 540 V	Start Up DC Voltage		125 V	
Max. PV Short-circuit Current	18 A / 18 A	Relative Humidity		0 ~ 90% (No Condensing)	
Max. Charging/Discharging Current	100 A	Dimension (W x D x H) 610 x 210 x 627 mm			
Max. Charging/Discharging Power	5000 W	Weight		27.7 kg	
Rated Voltage	230 V	EMC	EN 6	61000-6-1/2/3/4	
Safety	IEC 62109				
Grid Regulation	AS4777.2				
Battery Technical Specification	ı				
Module Model	M4856-P	SMILE5-BAT	SMILE-BAT-10.1P	SMILE-BAT-13.3P	
Module Capacity	2.9 kWh	5.7 kWh	10.1 kWh	13.3 kWh	
Module Nominal Voltage	51.2 V	51.2 V	48 V	48 V	
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*	

Max. Modules in Parallel

Max. Charging/Discharging



6**

100A

8000***

a +86 513 8060 6891

Current

Cycle Life

- info@alpha-ess.com
 www.alpha-ess.com
 Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

****** +86 512 6828 7609

6

56 A

10 000***

- info@alpha-ess.com
 www.alpha-ess.com
 Building 10-A, Canal Town Industrial Park, 99
 Taihu E Rd, Wuzhong District, Suzhou 215000

6

100 A

8000***

- 😭 +61 402 500 520 (Sales)
- +61 1300 968 933 (Technical Support)

 australia@alpha-ess.com

 www.alpha-ess.com.au
- ☐ Unit 1, 2 Ralph Street Alexandria NSW 2015

- ***** +49 6103 4591 601
- europe@alpha-ess.de
 www.alpha-ess.de
 Paul-Ehrlich-Straße 1a, D-63225 Langen, Hessen
- **a** +39 599 239 50

info@alpha-ess.it www.alpha-ess.it Via Loda,17-41013 Castelfranco Emilia (MO)

a +82 64 721 2004

6

56 A

10 000***

korea@alpha-ess.com
2F, 19-4, Nohyeong 11-gil, Jeju-si,
Jeju-do, Republic of Korea

uk@alpha-ess.com
Drake House, Long Street,
Dursley, gl11 4hh

^{*} When the ambient temperature is too low or too high, the performance of battery may be limited.

^{** ≥2} needs to install expansion pack

^{***} Under specific test conditions