

YOUR
SMART
ENERGY



SMILE X6/X12

RESIDENTIAL SERIES

POWER

6 / 12 kW Hybrid Inverter
Single Phase

CAPACITY

7.6 ~ 15.2 kWh with 7.6 kWh Battery Module



KEY FEATURES

Wider Range of MPPT Work Voltage, 166% PV Oversized

Flexible Feed-in Power Control, Zero Feed-in Capability

Robust Weak Grid Adaptability

UPS Seamless Switch, Off-grid Max. 200% Overload, 10s

Dual Backup for Off-grid Load Management

Dedicated Port: Supports Generator and Smart Load Management

User-friendly LCD and Built-in Bluetooth Supports Local Operation Without Internet

5 Years Warranty

SMILE X6/X12



Model	SMILE X6	SMILE X12
System Specifications		
Rated Output Power	6000 W	12000 W
Battery Chemistry	LFP (LiFePO ₄)	
Energy Range	7.6 kWh ~ 15.2 kWh (100% DoD)	
Warranty	5 Years	
PV String Input Data		
Max. PV Input Power	10000 W	20000 W
Max. PV Input Voltage	520V	
Start-up Voltage	50V	
MPPT Number / Max. Input Strings Number per MPPT	1 / 2	2 / 2
MPPT Voltage Range	40 ~ 450 V	
Max. Short Circuit Current per MPPT	48A	48A / 48A
Max. Input Current per MPPT	32A	32A / 32A
AC Input / Output Data		
AC Input & Output Data (Grid Side)		
Rated AC Output Power	6000 VA	12000 VA
Max. AC Input Power	9000 W	18000 W
Rated Frequency	50 / 60 Hz	
Rated Voltage	230 V	
Grid Voltage Range	150 ~ 280 V	
Backup Output Data		
Rated Output Power (Off-grid)	6000 VA	12000 VA
Rated Output Voltage (Off-grid)	230 V	
Peak Power (Off-grid)	200% @ 10s	
Rated Output Power (On-grid)	9000 VA	18000 VA
Max. Continuous AC Passthrough	39 A	78 A
On/Off Grid Switch Time	10 ms	
General Specifications		
Dimensions (W x D x H)	490.5 × 139 × 435 mm	
Weight	20 kg	
Communication	WiFi / Bluetooth	
Relative Humidity	0 ~ 100% (Non-Condensing)	
Operation Temperature	-25 ~ 60 °C	
Noise	<50 dB	
Over Voltage Category	DC Type III / AC Type III	
Ingress Protection(IP) Rating	IP 21	
Operation Altitude	2000 m	
Safety	IEC62109-1/-2	
EMC	IEC61000-6-1/-2/-3/-4	
Grid Regulation	Philippine-Distribution-Code-2017-Edition, IEC61727,IEC61683	
Battery Technical Specifications		
Module Mode	SMILE X-BAT-7.6S	
Rated Energy	7.6 kWh	
Depth of Discharge (DoD)	100%	
Nominal Voltage	25.6 V	
Operating Voltage Range	25 ~ 28.8 V	
Max. Charge / Discharge Current	157 A @ Continuous	
Operating Temperature Range	-10 °C ~ 50 °C	
Ingress Protection(IP) Rating	IP 21	
Battery Modules Connection	1 ~ 2 in Series	
Dimensions (W x D x H)	518.5 × 238 × 374 mm	
Weight	56.5 kg	
Warranty	5 Years	

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