

Single-phase Low-voltage Residential Hybrid Inverter



X1-GENKI

6.0kW



Smart Management

- Single unit UPS-level switchover time < 4 ms
- Global MPP scan for optimal energy harvest
- Smart loads management
- CT compatibility with fast load response in just 0.3 seconds



Assured Reliability

- Battery terminal temperature detection
- IP65 protection degree
- Type II SPD on AC&DC side
- Optional AFCI protection*



High Performance

- 200% PV oversizing and up to 110% AC output
- 200% peak EPS power for 10 s
- Max. 120A charging / discharging current
- Low start-up voltage for longer operation



Flexible Adaptability

- Max. 10pcs parallel for off-grid*
- Generator function for versatile operations*
- Max. 16A DC input current for high-power solar panel

* Feature to be upgraded in the future

X1-GENKI-6.0-LV

DC INPUT	
Max. PV array input power	12000 Wp
Max. PV input power (PV1+PV2)	9000 Wp
Max. PV input voltage	550 V
Start output voltage	110 V
Nominal input voltage	360 V
MPPT voltage range	80 ~ 520
No. of independent MPPT / strings per MPPT	2 / 2
Max. input current	16 / 16 A
Max. short circuit current	20 A
BATTERY DATA	
Battery type	Lithium / Lead-Acid
Max. charging / discharging current	120 A
Battery voltage range	40 ~ 60 V
Nominal battery voltage	48 V
EPS OUTPUT (WITH BATTERY)	
Nominal output apparent power [VA]	6000
Peak apparent power [VA, s]	12000, 10
Nominal output current [A]	26.1
Nominal voltage [V], frequency [Hz]	230, 50 / 60
Switch time [ms]	< 4
EFFICIENCY	
MPPT efficiency	> 99.9%
Max. efficiency	97.6%
Euro. efficiency	97%
GENERAL	
Degree of protection	IP65
Operating temperature range	-25 ~ +60°C (derating above +45°C)
Relative humidity	4 ~ 100%
Max. operation altitude	< 3000 m
Noise emission(typical)	< 50 dB
Storage temperature	-25 ~ +70°C
Dimensions(WxHxD)	397 x 490 x 201 mm
Net weight	17.3 kg
Cooling concept	Smart cooling
Topology	Transformerless for PV side / HF for battery side
HMI interface	LED + LCD
Communication interfaces	CAN, RS485, CT, Meter, USB, NTC, WiFi, WiFi+Lan
Warranty [years]	5
STANDARD	
Safety	EN IEC 62109-1/-2, EN IEC 61683