



X1 GEN Ki

Product Datasheet

12kW - Single Phase Inverter

Manufactured by SolaX Power

DC INPUT

Max. PV Array [Wp]	24000
Max. PV Input Power [Wp]	24000
Max. PV Input Voltage [V]	600
Start Output Voltage [V]	110
Nominal Input Voltage [V]	360
Operating Voltage Range [V]	50 ~ 550
MPPT Voltage Range [V]	50 ~ 550
No. of MPPT / Strings per MPPT	3(2 / 2 / 2)
Max. Input Current [A]	32 / 32 / 32
Max. Short Circuit Current [A]	40 / 40 / 40

BATTERY DATA

Battery Type	Lithium / Lead-Acid
Battery Voltage Range [V]	40 ~ 60
Nominal Battery Voltage [V]	48
Max. Charging / Discharging Current [A]	250

EPS OUTPUT (WITH BATTERY)

Nominal Output Apparent Power [VA]	12000
Peak Apparent Power [VA , s] ^③	24000 , 10
Nominal Output Current [A]	52.2
Nominal Voltage [V], Frequency [Hz]	230V, 50 / 60
Switch Time [ms]	< 4
THDv (linear load) [%]	< 2
LRA [A]	125

SYSTEM DATA

MPPT Efficiency [%]	> 99.9
Max. Efficiency [%]	97.6
Euro. Efficiency [%]	97.0

ENVIRONMENT LIMIT

Degree of Protection	IP65
Operating Temperature Range [°C]	-25 ~ +60 (derating above +45)
Relative Humidity [%]	4 ~ 100%
Max. Operation Altitude [m]	< 3000
Storage Temperature range [°C]	-25 ~ +70
Noise Emission(typical) [dB]	< 45

GENERAL

Dimensions(WxHxD) [mm]	651 x 462 x 280
Net Weight [kg]	38.5
Cooling Concept	Smart Cooling
Topology	Transformerless for PV Side / HF for Battery Side
HMI / Communication Interfaces	LED + LCD / CAN, RS485, CT, Meter, USB, NTC, WiFi+Lan
Warranty [years]	5

STANDARD

Safety	EN IEC 62109-1 / -2
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