SOLARUNIS

Range Overview

Find Your Hybrid Inverter

Solar + Storage

Split-phase output, four PV trackers and high-voltage battery storage. IP66 / NEMA 4X enclosure.

See every model on page 2.

Split-phase | High voltage | 5-20 kW

Available output ratings
5 / 6 / 8 / 10 / 12 / 15 / 20 kW

PV input:
Four MPPT trackers; 95 V startup.

Battery:
80-480 V; two battery ports.

Max. efficiency:
97.6% (manufacturer stated).

Grid output:
120/240/208 V; configure per model.

Switching:
Under 8 ms (manufacturer stated).

Warranty:
5-year standard warranty included.

Installation imagery is illustrative. Confirm battery, grid and market approvals for the selected installation.

MODEL NAME	U5K-PH	U6K-PH	U8K-PH	U10K-PH	U12K-PH	U15K-PH	U20K-PH
Rated output power	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW	20 kW
Rated output current	21 A	25 A	33.5 A	41.7 A	50 A	62.5 A	83.5 A
Maximum output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA	22 kVA
Peak power / duration*	1.1× continuous; 1.6× for 10 seconds						
Rated frequency	50 / 60 Hz						
Switching time	<8 ms						
On-grid Parameter							
Rated output power	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW	20 kW
Rated output current	21 A	25 A	33.5 A	41.7 A	50 A	62.5 A	83.5 A
Grid input current	200 A						
Grid input voltage	211–264 Vac						
Rated grid voltage	120 / 240 / 208 V (manually configurable for 240 V single-phase)						
Generator Parameter							
Input power	48 kW						
Input current	200 A						
PV Input							
Rec. max. installed PV	12.5 kWp	15 kWp	20 kWp	25 kWp	30 kWp	37.5 kWp	37.5 kWp
Max. PV input power	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp	30 kWp
Strings per MPPT	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	2/2/1/1	2/2/2/2
MPPT max. input current	18 A	18 A	18 A	18 A	18 A	36/36/18/18 A	36 A
MPPT short-circuit current	22 A	22 A	22 A	22 A	22 A	44/44/22/22 A	44 A
Startup voltage	95 V						
MPPT voltage range	80–500 V						
Number of MPPT	4						
Battery Parameter							
Battery type	Lithium-ion / lead-acid						
Battery voltage range	80–480 V						
Max. charge/discharge current	50 A × 2						
Efficiency							
Maximum efficiency	97.6%						
CEC efficiency	97.2%						
PV-to-battery charge eff.	97.7%						
Max. charge/discharge efficiency	96.6%						
General Data							
Dimensions (W × H × D)	31.5 × 18.5 × 7.1 in / 800 × 470 × 180 mm						
Weight	105 lb / 48 kg						
Operating temperature	–13 to 140°F / –25 to 60°C (>104°F / 40°C derating)						
Operating altitude	4,000 m (>3,000 m derating)						
IP rating	IP66 / NEMA 4X						
Communication	Wi-Fi / LAN / 4G / Bluetooth						
Battery communication	CAN × 2 / RS485 × 2						
Dry contact	DO × 1, DI × 2 (RSD rapid shutdown + emergency stop switch)						
ATS function	Built-in						
Protection	PV DC switch; ground-fault detection; RSD rapid shutdown control; PV arc-fault detection; PV surge protection; DC Type II / AC Type II surge protection; PV reverse-insertion protection; AC grid input circuit breaker						
Certification							
UL	UL 1741; CSA 22.2 No. 107-01; UL 1998; UL 1699B						
FCC	FCC Part 15 Class B						
Grid	UL 1741 SB; California Rule 21; HECO Rule 14; IEEE 1547; IEEE 1547.1						

* Overload output requires adequate PV output.