


# On/off-grid | Split Phase | High Voltage


Hybrid Inverter

5/6/8/10/12/15/20kW




## Product Features

 **SiC Technology,**  
Max. 98% Efficiency

 **2 Independent Battery**  
Ports for Mixture Use of  
Old & New Battery


 **160% -300% Overload**


 **200% Grid Input Power,**  
Max.48kW

 **Max. 200% PV Input Power,**  
Max.36A PV Current, 4 MPPTs

 **Battery Current 100A,**  
High Compatibility to Battery

 **180mm Ultra-thin**  
Small Size, Easier for  
Installation and Price-wise  
in Shipping

 **> 200% Generator Input**  
Power, Executive Generator  
Port, Smart Monitoring

 **IP66/NEMA 4X**  
Protection Grade  
AFCI Function(Optional)

Model Name	Isuna U5K-PH	Isuna U6K-PH	Isuna U8K-PH	Isuna U10K-PH	Isuna U12K-PH	Isuna U15K-PH	Isuna U20K-PH
<b>Off-grid Output</b>							
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	22kVA
Peak Power&Duration*	15kVA(10s)	18kVA(10s)	24kVA(10s)	30kVA(10s)	32kVA(10s)	32kVA(10s)	32kVA(10s)
Rated Frequency	50Hz/60Hz						
GEN Input Power	48kW						
GEN Port Current	200A						
Off-grid Switching Time	<8ms						
<b>On-grid Parameter</b>							
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Rated Grid Voltage	120V/240V/208V (240V/208V Single phase support)						
Input Current from Grid	200A						
<b>PV Input</b>							
Max. PV Input Power	10kWp	12kWp	16kWp	20kWp	24kWp	24kWp/30kWp	24kWp/30kWp
Starting Voltage	95V						
MPPT Voltage Range	80-500V						
Numbers of MPPT	4						
Numbers of String 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
Max. MPPT Input Current	18A	18A	18A	18A	18A	36/36/18/18A	36A
MPPT Short-circuit Current	22A	22A	22A	22A	22A	44/44/22/22A	44A
<b>Battery Parameter</b>							
Battery Type	Lithium-ion/Lead-acid/Sodium-ion(optional)						
Battery Voltage Range	80-480V						
Battery Charging/Discharging Current	50A*2						
<b>Efficiency</b>							
Max. Efficiency	97.6%						
CEC Efficiency	97.2%						
PV Charge to Battery	97.7%						
Max. Battery Charging/Discharging Efficiency	96.6%						
<b>General Data</b>							
Size(W*H*D)	31.5*18.5*7.1 in/800*470*180 mm						
Weight	105 lb/48 kg						
Operating Temperature	-13~140°F/-25~60°C(>104°F/40°C Derating)						
Operating Altitude	4000m (>3000m Derating)						
Protection Grade	IP66/NEMA 4X						
Communication Port	WIFI/LAN/4G/Bluetooth						
Battery Communication Port	CAN*2/RS485*2						
ATS Function	Built-in						
Protection	DC Switch; Ground Fault Detection; PV Quick Shutdown Control; PV Arc Fault Detection; PV Input Lightning Protection; PV Reverse Polarity Protection; Battery Reverse Protection; Surge Protection: DC Type II /AC Type II; AC Grid Input Circuit Breaker						
<b>Certification</b>							
UL	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL1699B						
FCC	FCC part15 CLASS B						
Grid	UL1741 SB, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1						

\*Overload output is dependent on sufficient PV and battery energy