



Product Features

 **SiC Technology,**
Max. 97.6% 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-POH	Isuna U6K-POH	Isuna U8K-POH	Isuna U10K-POH	Isuna U12K-POH	Isuna U15K-POH	Isuna U20K-POH
Off-grid Output							
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Peak Power&Duration	110% for long term, 160% (10s)*						
Rated Frequency	50Hz/60Hz						
GEN Input power	48kW						
GEN Input current	200A						
Off-grid Switching Time	<10ms						
On-grid Parameter							
Rated Grid Voltage	120V/240V/208V (240V/208V Single phase support)						
Input Power from Grid	48kW						
Input Current from Grid	200A						
PV Input							
Max. PV Input Power	10000Wp	12000Wp	16000Wp	20000Wp	24000Wp	30000Wp	30000Wp
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
Battery Parameter							
Battery Type	Lithium-ion/Lead-acid						
Battery Voltage Range	80-480V						
Battery Charging/Discharging Current	50A*2						
Efficiency							
Max. Efficiency	97.6%						
CEC Efficiency	97.2%						
PV Charge to Battery	97.7%						
Max. Battery Charging/Discharging Efficiency	96.6%						
General Data							
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						
Certification							
UL	UL 1741, CSA 22.2 No.107-01,UL 1998 UL1699B						
FCC	FCC Part 15: 2021						

*Overload output must include sufficient PV output