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If the size and parameters of the product change, please refer to the latest object.

Ver:9.3.2026



# Residential Solar Storage Inverter

Product Brochure

Power with Isuna, Energy with Ease

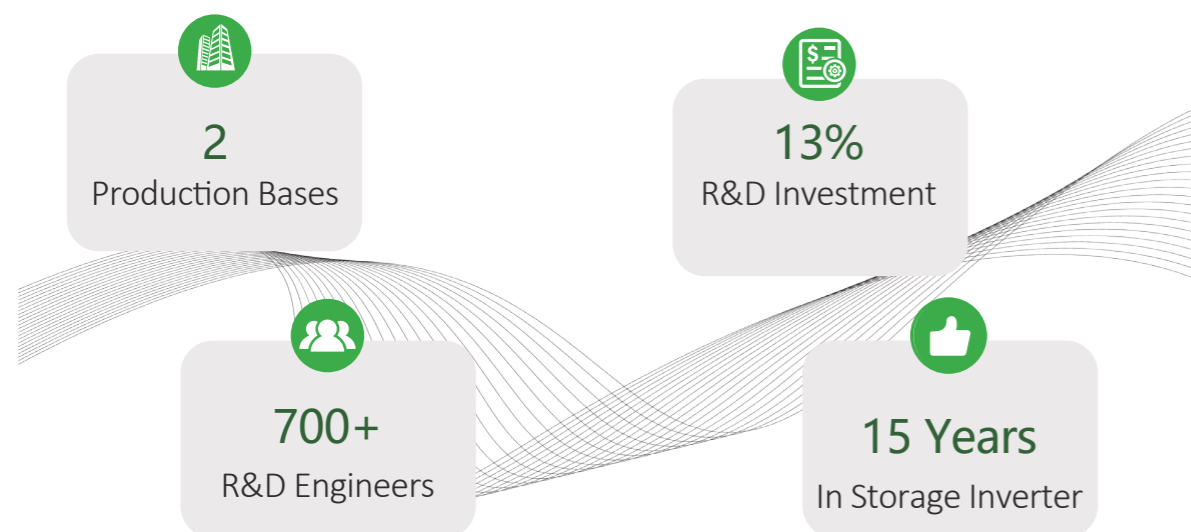


## About Us

Sinexcel Electric is a high-tech manufacturer specializing in power electronics technology, listed in the China main board(stock code 300693). Our products has been exported and used in more than 50 countries all around the world, with headquarter in Shenzhen, 2 production bases respectively in Huizhou and Suzhou of China, branch company located in California USA, Dusseldorf Germany, Brisbane Australia, Singapore, India.

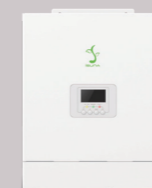
Sinexcel Isuna, a subsidiary of Sinexcel Electric, specializes in residential solar storage solutions and small-scale commercial & industrial storage solutions We offer hybrid inverter and off-grid inverter, including single phase, three phase, split phase, with power range covering 1.5-50kW.

As an expert in solar storage solution, Sinexcel Isuna offers residential storage inverter that with unique features and unexceptional designs, as well as tailor-made solutions.



## Residential Solar storage Inverter

### Off-grid Inverter



Single Phase LV 3-12kW(48V)



Single Phase LV 1.5-3kW(24V)

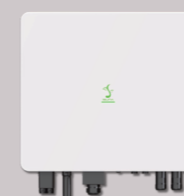


Single Phase LV 1.5-6kW(48V)



Three Phase HV 10-20kW

### Hybrid Inverter(Without LCD display)



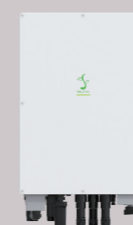
Single Phase LV 3-6kW



Three Phase HV 5-20kW



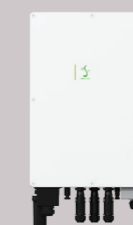
Three Phase HV 22-50kW



Single Phase LV 5-12kW



Three Phase LV 5-12kW



Single Phase HV 5-12kW



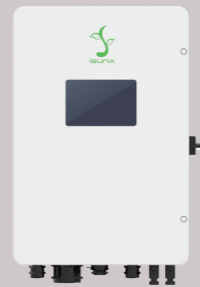
Three Phase HV 5-12kW

## Residential Solar storage Inverter

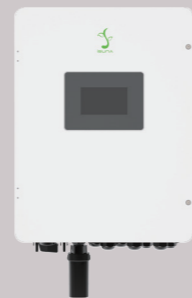
### Hybrid Inverter with LCD Display (for Middle East, Africa, Asia market)



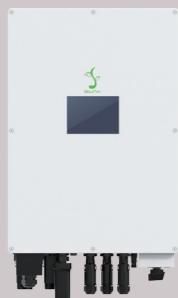
Single Phase LV  
1.5-6kW(IP20)



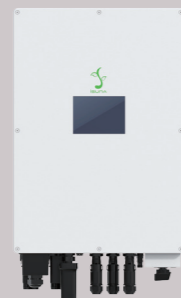
Single Phase LV 3-6kW



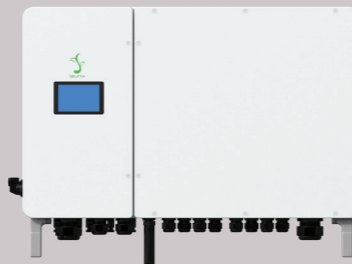
Three Phase LV 3-6kW



Single Phase LV  
5-12kW



Three Phase LV  
5-12kW



Three Phase HV 22-50kW

### Split Phase Inverter



Split Phase HV 5-20kW



Split Phase Off-grid HV 5-20kW

## Off-grid Inverter

Single phase LV off-grid inverter 3-12kW(48V).....	P5
Single phase LV off-grid inverter 1.5-3kW(24V) .....	P7
Single phase LV off-grid inverter 1.5-6kW(48V) .....	P9
Three phase HV off-grid inverter 10-20kW .....	P11

## Hybrid Inverter without LCD Display

Single phase LV hybrid inverter 3-6kW .....	P13
Three phase HV hybrid inverter 5-20kW .....	P15
Single phase LV hybrid inverter 5-12kW .....	P17
Single phase HV hybrid inverter 5-12kW .....	P19
Three phase LV hybrid inverter 5-12kW .....	P21
Three phase HV hybrid inverter 5-12kW .....	P23
Three phase HV hybrid inverter 22-50kW .....	P25

## Hybrid Inverter with LCD Display

Single phase LV hybrid inverter 1.5-6kW(IP20) .....	P27
Single phase LV hybrid inverter 3-6kW .....	P29
Three phase LV hybrid inverter 3-6kW .....	P31
Single phase LV hybrid inverter 5-12kW .....	P33
Three phase LV hybrid inverter 5-12kW .....	P35
Three phase HV hybrid inverter 22-50kW .....	P37

## Split Phase Inverter

Split phase HV hybrid inverter 5-20kW .....	P39
Split phase HV off-grid inverter 5-20kW .....	P41












# Off-grid | Single Phase | Low Voltage

Hybrid Inverter

3/4/5/6/8/10/12kW

## Product Features

- 
**Max. Efficiency 97.5%**  
**3-5% Higher than Average**
- 
**190-460% Grid Input Power**  
**60A-100A Grid Input Current**  
**Supplying to Loads & Charging Battery in Parallel**
- 
**125-250% PV Input Power,**  
**2-4MPPTs, PV Input Current**  
**18A, Higher Compatibility with PV Panel**
- 
**5-years Standard Warranty**
- 
**Support 176-264V AC Voltage Range**
- 
**125-150% Overload**
- 
**Support 6 units in Parallel (3-6kW only)**
- 
**Compatible with Lead-Acid/Gel/Lithium Battery**
- 
**Smart Fan, Ultra Silence**  
**Fan Running since 50% Rated Power Output**

Model Name	Isuna 3000SO	Isuna 4000SO	Isuna 5000SO	Isuna 6000SO	Isuna 8000SO	Isuna 10000SO	Isuna 12000SO
<b>Off-grid Output</b>							
Max. Output Power	3kVA	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Output Voltage&Range	220Vac±10%						
Nominal Output Current	13.6A	18.2A	22.7A	27.2A	36.4A	45.4A	54.4A
Peak Power&Duration	4.5kVA(10s)	6kVA(10s)	8kVA(10s)	8kVA(10s)	12kVA(10s)	15kVA(10s)	15kVA(10s)
<b>Grid Parameter</b>							
Peak AC Input Current	60A			100A			
Max Load Power	8kW			16kW			
Nominal Grid Voltage	220Vac						
Grid Voltage Range	176-264V						
Nominal Grid Frequency	50/60Hz						
THDi	<3%						
<b>PV Input</b>							
Max. Input Power	6600W	8000W	9000W	9000W	14000W	18000W	18000W
Max. Input Voltage	500V						
Mppt Voltage Range	100-500V						
Number of MPPT	2			4			
Max. Input String Per MPPT	1						
Nominal Input Voltage	360V						
Starting Voltage	120V						
Max. Input Current	18A/18A			18A/18A/18A/18A			
Short-Circuit Current	22A/22A			22A/22A/22A/22A			
<b>Battery Parameter</b>							
Battery Type	Lithium-ion/Lead-Acid						
Nominal Battery Voltage	48V						
Battery Voltage Range	42-58V						
Max. Charging Voltage	58V						
Lead-Acid Charging Curve	3 stages						
Max. Charging Current	60A	80A	100A		200A		
Max. Discharging Current	60A	80A	100A	120A	200A		
<b>Efficiency</b>							
Max. Efficiency	97.40%		97.50%		97.40%		97.50%
European Efficiency	97.20%		97.30%		97.20%		97.30%
Max. Battery Charging/Discharging Efficiency	94.00%						
<b>General Data</b>							
Size(W*H*D)	360mm*470mm*114mm				400mm*620mm*210mm		
Weight	14kg				29kg		
Noise	<45dB(A)						
Operating Temperature	-25°C~+60°C (>55°C Derating)						
Cooling Method	Intelligent Air Cooling						
Parallel Units	6				1		
Warranty	5 years						
Ingress Protection Grade	IP20						
Communication Method	LED/LCD/WIFI/Bluetooth/RS485						
Communication Port	CAN + RS485						
Protection	Reverse Polarity Protection; Over Current/Voltage Protection; AC Short-circuit Protection; PV Ground Fault Monitoring; Over Temperature Protection						
<b>Certification</b>							
CE-LVD	EN 62109-2:2011, EN 62109-1:2010						
CE-EMC	EN 61000-6-1, EN 61000-6-2						



## Product Features

**Max. Efficiency 97.5%, 3-5% Higher than Average**

**125-250% PV Input Power, PV Input Current 18A, Higher Compatibility with PV Panel**

**230-460% Grid Input Power, 30A Grid Input Current Supplying to Loads & Charging Battery in Parallel**

**3-years Standard Warranty**

**Support 176-264V AC Voltage Range**

**130-260% Overload > 200% Generator Input**

**Mini-sized, Easier for Installation and Price-wise in Shipping**

**Support 6 Units in Parallel**

**Smart Fan, Ultra Silence Fan Running since 50% Rated Power Output**

Model Name	Isuna O1.5K-SOU-G2	Isuna O2.2K-SOU-G2	Isuna O3K-SOU-G2
<b>Off-grid Output</b>			
Max. Output Power	1500VA	2200VA	3000VA
Output Voltage&Range	220V/230V/240Vac±10%		
Rated Output Current	6.8A	10A	13.6A
Peak Power & Duration	4kVA(10s)		
Max. Generator Input	6KVA		
<b>On-grid Parameter</b>			
Max. AC Input Current	30A		
Max. Load Power	4kW		
Max Output Power	1500W	2000W	3000kW
Rated Output Current	6.8A	10A	13.6A
On-Grid Voltage	220V/230V/240Vac		
Rated AC Frequency	45-55Hz/55-65Hz		
Grid Voltage Range	176-264V		
THDi	<3%		
<b>PV Input</b>			
Max. DC Input Power	3750W		
Rated DC Input Voltage	360V		
Input Voltage Range	60-500V		
MPPT Voltage Range	60-500V		
Starting Voltage	72V		
Numbers of MPPT	1		
Max. DC Input Current	18A		
Max. Short-circuit Current	22A		
<b>Battery Parameter</b>			
Battery Type	Lithium-ion/Lead-Acid		
Rated Battery Voltage	24V		
Battery Voltage Range	21-29V		
Max. Discharge Current	125A		
Max. Charge Current	125A		
Charging Curve	3 stages		
<b>Efficiency</b>			
Europe Efficiency	97.2%	97.3%	97.3%
Max.Efficiency	97.4%	97.5%	97.5%
Max. Battery Charging/Discharging Efficiency	94.0%		
<b>General Data</b>			
Size(W*H*D)	315mm*280mm*80mm		
Weight	5.5kg		
Noise	<40dB(A)		
Operating Temperature	-25°C ~ +60°C (>55°C Derating)		
Operating Altitude	4000m (>2000m Derating)		
Cooling Method	Intelligent Air Cooling		
Mornitoring	LCD/LED/APP/WIFI/Bluetooth		
Communication Port	CAN+RS485		
Protection	Over Current/Voltage Protection;AC Short-circuit Protection;Over Temperature Protection		
Parallel Capability	Max. 6 Units		
Ingress Protect Degree	IP20		
<b>Certification</b>			
CE-LVD	EN 62109-2:2011 EN 62109-1:2010		
CE-EMC	EN61000-6-1, EN61000-6-2		



## Product Features

**Max. Efficiency 97.5%, 3-5% Higher than Average**

**125-250% PV Input Power, PV Input Current 18A-36A**

**230-460% Grid Input Power, 30A-60A Grid Input Current Supplying to Loads & Charging Battery in Parallel**

**3-years Standard Warranty**

**Support 176-264V AC Voltage Range**

**130-260% Overload >200% Generator Input**

**Mini-sized, Easier for Installation and Price-wise in Shipping**

**Support 6 Units in Parallel**


**Smart Fan, Ultra Silence Fan Running since 50% Rated Power Output**


Model Name	Isuna 01.5K-SOL-G2	Isuna 02.2K-SOL-G2	Isuna 03K-SOL-G2	Isuna 04K-SOL-G2	Isuna 05K-SOL-G2	Isuna 06K-SOL-G2
<b>Off-grid Output</b>						
Max. Output Power	1500VA	2200VA	3000VA	4000VA	5000VA	6000VA
Output Voltage&Range	220V/230V/240Vac±10%					
Rated Output Current	6.8A	10A	13.6A	18.2A	22.7A	27.2A
Peak Power&Duration	4kVA(10s)			8kVA(10s)		
Max. Generator Input	6KVA			12KVA		
<b>On-Grid Parameter</b>						
Max. AC Input Current	30A			60A		
Max. Load Power	4kW			8kW		
On-Grid Voltage	220V/230V/240Vac					
Nominal AC Frequency	45-55Hz/55-65Hz					
Grid Voltage Range	176-264V					
THDi	<3%					
<b>PV Input</b>						
Max. DC Input Power	3750W			7500W		
Rated DC Input Voltage	360V					
Input Voltage Range	60-500V					
MPPT Voltage Range	60-500V					
Starting Voltage	72V					
Numbers of MPPT	1					
Max. DC Input Current	18A			36A		
Max. Short-circuit Current	22A			44A		
<b>Battery Parameter</b>						
Battery Type	Lithium-ion/Lead-Acid					
Rated Battery Voltage	48V					
Battery Voltage Range	42-58V					
Max. Discharge Current	62.5A			125A		
Max. Charge Current	62.5A			125A		
Charging Curve	3 stages					
<b>Efficiency</b>						
Europe Efficiency	97.2%	97.3%	97.3%	97.2%	97.3%	97.3%
Max.Efficiency	97.4%	97.5%	97.5%	97.4%	97.5%	97.5%
Max. Battery Charging/Discharging Efficiency	94.0%					
<b>General Data</b>						
Size(W*H*D)	315mm*280mm*80mm			345mm*305mm*98mm		
Weight	5.5kg			7kg		
Noise	<40dB(A)					
Operating Temperature	-25°C ~ +60°C (>40°C Derating)					
Operating Altitude	4000m (>2000m Derating)					
Cooling Method	Intelligent Air Cooling					
Mornitoring	LCD/LED/APP/WIFI/Bluetooth					
Communication Port	CAN+RS485					
Protection	Over Current/Voltage Protection;AC Short-circuit Protection;Over Temperature Protection					
Parallel Capability	Max. 6 Units					
Ingress Protect Degree	IP20					
<b>Certification</b>						
CE-LVD	EN 62109-2:2011 EN 62109-1:2010					
CE-EMC	EN61000-6-1, EN61000-6-2					



## Product Features

 **Support 100% Three Phase Unbalance**


 **SiC Technology 98.2% Efficiency**


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

 **<10ms On/Off-grid Switchover**

 **6 Units in Parallel**

 **150-200% PV Input Power**

 **200% Grid Input Power, 58A Grid Input Current Supplying to Loads & Charging Battery in Parallel**

 **Support Altitude 5000m(>3000m Derating)**

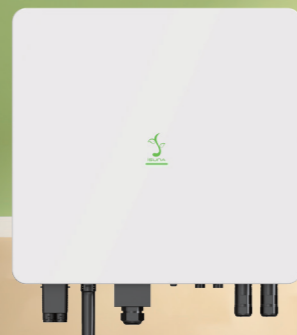
 **Support 184-276V Grid Voltage Range**

Model Name	Isuna 10000TO	Isuna 12000TO	Isuna 15000TO	Isuna 18000TO	Isuna 20000TO
<b>Off-grid Output</b>					
Rated Output Power	10kW	12kW	15kW	18kW	20kW
Peak Power&Duration	11kVA(60s)	13.2kVA(60s)	16.5kVA(60s)	19.8kVA(60s)	22kVA(60s)
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Rated Frequency	50/60Hz				
Rated Output Current	15A	18A	22.5A	27A	30A
Output THDu	<3%				
<b>Grid Parameter</b>					
Max. Input Power from Grid	20kW	24kW	30kW	36kW	40kW
Max. Input Current from Grid	29A	35A	44A	52A	58A
Rated Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V				
Grid Voltage Range	184-276V/320-480V				
<b>PV Input</b>					
Max. Input Power	20000Wp	24000Wp	30000Wp	30000Wp	30000Wp
Max. Input Voltage	1000V				
Number of MPPT	2				
Max. Input String Per MPPT	2				
Mppt Voltage Range	130-960V				
Rated Input Voltage	600V				
Starting Voltage	200V				
Max. Input Current	25A/25A				
Short-Circuit Current	30A/30A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Full Load Battery Voltage Range	210-800V	250-800V	300-800V	360-800V	400-800V
Battery Charging/Discharging Current	25A*2				
Peak Charging/Discharging Current-Duration	35A*2-60s				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
<b>General Data</b>					
Size(W*H*D)	573mm*509mm*219mm				
Weight	35kg				
Noise	<45dB(A)				
Operating Altitude	5000m (>3000m Derating)				
Operating Temperature	-25°C~+60°C				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Mornitoring	LED/WIFI/4G/Bluetooth/RS485				
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port				
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection;Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery);Lightning Protection				

# On/off-grid | Single Phase | Low Voltage

Hybrid Inverter

3/3.6/4/4.6/5/6 kW




## Product Features

 **SiC Technology**  
Max.Efficiency 98%


 **Support 6 Units in Parallel (Off-grid Mode)**

 **150-200% PV Input Power**  
PV Input Current 18A

 **Natural Cooling**  
(Noise<25dB)

 **<10ms On/Off-grid Switchover**

 **Support Setting of 6 Charging/Discharging Time Period**

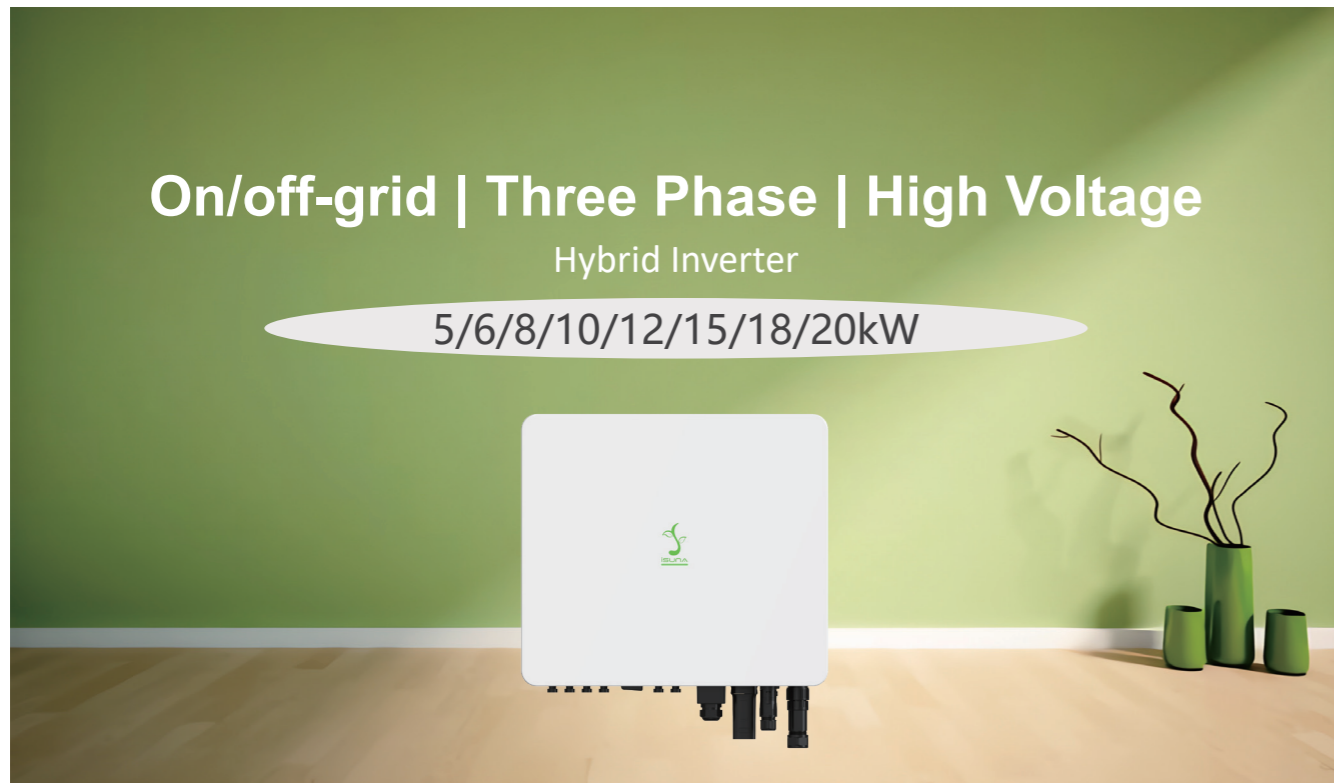
 **Without LCD/LED Display Design, Higher Reliability**

 **Support AC Couple**

 **Self-owned APP,**  
**Support Adding New Language**

Model Name	Isuna 3000S	Isuna 3600S	Isuna 4000S	Isuna 4600S	Isuna 5000S	Isuna 6000S
<b>Off-grid Output</b>						
Rated Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Rated Voltage	220V/230V/240V					
Rated Frequency	50/60Hz					
Rated Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Output THDu	< 2%					
Peak Power&Duration	120%(10s)*					
<b>On-grid Parameter</b>						
Rated Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Rated Grid Voltage	220V/230V/240V					
Max. Input Current from Grid	16.4A	22.7A		27.2A		
Grid Voltage Range	184-276V					
Frequency Range	45-65Hz					
<b>PV Input</b>						
Max. Input Power	6000Wp	7200Wp		8000Wp		9000Wp
Starting Voltage	95V					
Max.Input Voltage	600V					
MPPT Voltage Range	80-500V					
Number of MPPT	2					
Max. Input String Per MPPT	1					
Rated Input Voltage	360V					
Max. Input Current	18A/18A					
<b>Battery Parameter</b>						
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion					
Rated Battery Voltage	51.2V					
Battery Voltage Range	42-58V					
Max. Charging Voltage	≤60V					
Battery Charging/Discharging Current	75A	85A		100A		
<b>Efficiency</b>						
Max. Efficiency	97.5%		97.8%		98.0%	
European Efficiency	97.2%		97.3%		97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%					
<b>General Data</b>						
Size(W*H*D)	500mm*470mm*180mm					
Weight	21kg					
Noise	<25dB(A)					
Operating Temperature	-25°C~+60°C (>45°C Derating)					
Operational Altitude	4000m (>3000m Derating)					
Cooling Method	Natural Cooling					
Ingress Protection Grade	IP65					
Mornitoring	LED/WIFI/4G/Bluetooth/RS485					
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port					
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery):Lightning Protection					
<b>Certification</b>						
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1					
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920					
Grid	VDE-AR-N 4105, C10-11, G98/G99, CEI 0-21, EN50549, NRS 097-2-1, R25,UNE217001, UNE217002, NTS 2.1, PEA, MEA, NC RfG					

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



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


Hybrid Inverter

5/6/8/10/12/15/18/20kW

## Product Features

 **Support 100% Three Phase Unbalance**


 **SiC Technology 98.2% Efficiency**


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

 **<10ms On/Off-grid Switchover**

 **6 Units in Parallel (Off-grid Mode)**

 **150-200% PV Input Power**

 **200% Grid Input Power, 58A Grid Input Current Supplying to Loads & Charging Battery in Parallel**

 **Support Altitude 5000m(>3000m Derating)**

 **Support AC Couple**

Model Name	Isuna 5000T	Isuna 6000T	Isuna 8000T	Isuna 10000T	Isuna 12000T	Isuna 15000T	Isuna 18000T	Isuna 20000T
<b>Off-grid Output</b>								
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	18kW	20kW
Peak Power&Duration	10kVA(60s)		11kVA(60s)		13.2kVA(60s)	16.5kVA(60s)	19.8kVA(60s)	22kVA(60s)
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac							
Rated Frequency	50/60Hz							
Rated Output Current	7.5A	9A	12A	15A	18A	22.5A	27A	30A
Output THDu	<3%							
<b>On-grid Parameter</b>								
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	18kW	20kW
Max. Input Power from Grid	10kW	12kW	16kW	20kW	24kW	30kW	36kW	40kW
Max. Input Current from Grid	15A	18A	24A	29A	35A	44A	52A	58A
Max. Output Current	8A	10A	13A	16A	20A	24A	29A	32A
Rated Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V							
Grid Voltage Range	184-276V/320-480V							
<b>PV Input</b>								
Max. Input Power	10000Wp	12000Wp	16000Wp	20000Wp	24000Wp	30000Wp	30000Wp	30000Wp
Max. Input Voltage	1000V							
Number of MPPT	2							
Max. Input String Per MPPT	2							
MPPT Voltage Range	130-960V							
Rated Input Voltage	600V							
Starting Voltage	200V							
Max. Input Current	25A/25A							
Short-Circuit Current	30A/30A							
<b>Battery Parameter</b>								
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion							
Number of Battery Input	2							
Battery Voltage Range	125-800V							
Full Load Battery Voltage Range	125-800V	125-800V	160-800V	210-800V	250-800V	300-800V	360-800V	400-800V
Battery Charging/Discharging Current	25A*2							
Peak Charging/Discharging Current-Duration	35A*2-60s							
<b>Efficiency</b>								
Max. Efficiency	98.20%							
European Efficiency	97.70%							
Max. Battery Charging/Discharging Efficiency	97.80%							
<b>General Data</b>								
Size(W*H*D)	573mm*509mm*219mm							
Weight	35kg							
Noise	<45dB(A)							
Operating Altitude	5000m (>3000m Derating)							
Operating Temperature	-25°C ~ +60°C							
Cooling Method	Intelligent Air Cooling							
Ingress Protection Grade	IP65							
Mornitoring	LED/WIFI/4G/Bluetooth/RS485							
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port							
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection;AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery);Lightning Protection							
<b>Certification</b>								
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1							
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920							
Grid	VDE-AR-N 4105, C10-11, G98/G99, CEI 0-21, EN50549, PEA, MEA, IEC 62116, IEC 61727 NRS 097-2-1, AS 4777.2, R25,UNE217001, UNE217002, NTS 2.1, NC RfG							

# On/off-grid | Single Phase | Low Voltage

Hybrid Inverter

5/6/8/10/12kW



## Product Features



**SiC Technology,**  
Max.Efficiency 98.2%



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



**150%-200% PV Input Power,**  
3 MPPTs, PV Input Current 20A,  
Higher Compatibility with PV Panel



**150-340% Grid Input Power,**  
Max.18kW, Supplying to Loads  
& Charging Battery in Parallel



**166-400% Overload**



**165mm Ultra-thin, IP65**



**Executive Generator Port,**  
Smart Monitoring  
Max.Generator Input  
Current 82A



**Battery Current 250A,**  
Battery Voltage 30-60V,  
Support Compatibility  
with Sodium-ion Battery



**6 Units in Parallel (Off-grid Mode)**  
AFCl/PID Function (Optional)

Model Name	Isuna D5K-SL	Isuna D6K-SL	Isuna D8K-SL	Isuna D10K-SL	Isuna D12K-SL
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	60A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	82A				
GEN Voltage Range	185-276V(P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	25A	30A	40A	50A	60A
Max. Input Power	18kVA				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
<b>General Data</b>					
Size(W*H*D)	465mm*665mm*165mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Isolation				
Communication Port	RS485*1, Wi-Fi/4G dongle*1, DO*2, DRM*1				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCl(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62477-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				
Grid	VDE-AR-N 4105;VDE 0126-1-1 EN 50549-1;G98,G100; CEI 0-21;AS/NZS4777.2 NRS 097-2-1				

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


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


Hybrid Inverter


5/6/8/10/12kW





## Product Features

 **SiC Technology**  
Max. Efficiency 98.2%


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


 **150%-200% PV Input Power, 3 MPPTs, PV Input Current 20A, Higher Compatibility with PV Panel**

 **150-340% Grid Input Power, Max.18kW, Supplying to Loads & Charging Battery in Parallel**

 **166-400% Overload**

 **165mm Ultra-thin, IP65**

 **Executive Generator Port, Smart Monitoring**  
Max. Generator Input Current 82A

 **Compatible with Lead-Acid/Gel/Lithium Battery**

 **6 Units in Parallel (Off-grid Mode) AFCI/PID Function (Optional)**

Model Name	Isuna D5K-SH	Isuna D6K-SH	Isuna D8K-SH	Isuna D10K-SH	Isuna D12K-SH
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power&Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	60A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	82A				
GEN Voltage Range	185-276V (P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	25A	30A	40A	50A	60A
Max. Input Power	18kVA				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	1000V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-960V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
<b>General Data</b>					
Size(W*H*D)	400mm*575mm*165mm				
Weight	26kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Non-Isolated				
Communication Port	RS485*1, Wi-Fi/4G dongle*1, DO*2, DRM*1				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCI(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				
Grid	VDE-AR-N 4105, VDE 0126-1-1 EN 50549-1, G98, G100, CEI 0-21, AS/NZS4777.2 NRS 097-2-1				

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

# On/off-grid | Three Phase | Low Voltage


Hybrid Inverter


5/6/8/10/12kW




## Product Features

 **SiC Technology, Max. 98.2% Efficiency**


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


 **150%-200% PV Input Power, 3 MPPTs, PV Input Current 20A, Higher Compatibility with PV Panel**


 **200-480% Grid Input Power, Max.24kW, Supplying to Loads & Charging Battery in Parallel**

 **166-400% Overload**

 **165mm Ultra-thin, IP65**

 **Executive Generator Port, Smart Monitoring Max. Generator Input Current 36.4A**

 **Battery Current 250A, Battery Voltage 30-60V, Support Compability with Sodium-ion Battery**

 **6 Units in Parallel (Off-grid Mode) AFCI/PID Function (Optional)**

Model Name	Isuna D5K-TL	Isuna D6K-TL	Isuna D8K-TL	Isuna D10K-TL	Isuna D12K-TL
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Switching Time	<10ms				
GEN Max. Current	36.4A				
GEN Voltage Range	185-276V(P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16A	20A
Max. Input Power	24kVA				
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage range	185-276V (P2N)				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
<b>General Data</b>					
Size(W*H*D)	465mm*665mm*165mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Isolation				
Communication Port	LED/WIFI/4G/Bluetooth/RS485				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCI(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4 EN 61000-4-16, EN 61000-4-18,EN 61000-4-29				
Grid	VDE-AR-N 4105;VDE 0126-1-1 EN 50549-1;G98,G100; CEI 0-21;AS/NZS4777.2 NRS 097-2-1				

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


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


Hybrid Inverter


5/6/8/10/12kW





## Product Features

 **SiC Technology,**  
Max. 98.2% Efficiency


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


 **150%-200% PV Input Power,**  
**3 MPPTs, PV Input Current 20A,**  
Higher Compatibility with PV Panel


 **200-480% Grid Input Power,**  
Max.24kW, Supplying to Loads  
& Charging Battery in Parallel

 **166-400% Overload**

 **165mm Ultra-thin, IP65**

 **Executive Generator Port,**  
Smart Monitoring  
Max.Generator Input  
Current 36.4A

 **Compatible with**  
Lead-Acid/Gel/Lithium  
Battery

 **6 Units in Parallel (Off-grid Mode)**  
AFCl/PID Function (Optional)

Model Name	Isuna D5K-TH	Isuna D6K-TH	Isuna D8K-TH	Isuna D10K-TH	Isuna D12K-TH
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Switching Time	<10ms				
GEN Max. Current	36.4A				
GEN Voltage Range	185-276V(P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16A	20A
Max. Input Power	24kVA				
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage range	185-276V(P2N)				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	1000V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-960V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
<b>General Data</b>					
Size(W*H*D)	400mm*575mm*165mm				
Weight	26kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Non-isolated				
Communication Port	LED/WIFI/4G/Bluetooth/RS485				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCl(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18,EN 61000-4-29				
Grid	VDE-AR-N 4105, VDE 0126-1-1 EN 50549-1, G98, G100, CEI 0-21, AS/NZS4777.2 NRS 097-2-1				










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

# On/off-grid | Three Phase | High Voltage Hybrid Inverter

22/25/29.9/30/40/42.5/50kW



## Product Features

-  **SiC Technology, Max. Efficiency 98.6%**
-  **2 Independent Battery Ports for Mixture Use of Old & New Battery**
-  **150%-340% PV Input Power, 4 MPPTs, PV Input Current 40A, Higher Compatibility with PV Panel**
-  **200%-470% Grid Input Power, 150A Grid Input Current Supplying to Loads & Charging Battery in Parallel**
-  **150% Overload, AFCI Function(Optional)**
-  **Smaller Size, Easier for Installation and Price-wise in Shipping**
-  **Executive Generator Port, Smart Monitoring Max.Generator Input Current 150A**
-  **Battery Current 160A, High Adapability with Battery**
-  **6 Units in Parallel (Off-grid Mode)**

Model Name	Isuna L22K-TH	Isuna L25K-TH	Isuna L29.9K-TH	Isuna L30K-TH	Isuna L40K-TH	Isuna L42.5K-TH	Isuna L50K-TH
<b>Off-grid Output</b>							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Apparent Power	24.2kVA	27.5kVA	29.9kVA	33kVA	44kVA	42.5kVA	55kVA
Rated Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Max. Output Current	35.1A	39.9A	43.5A	47.9A	63.8A	61.6A	79.8A
Peak Power & Duration	150%(10s)						
Generator Input Current	150A						
THDu	<3%						
<b>On-grid Parameter</b>							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Grid Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Grid Input Current	150A						
<b>PV Input</b>							
Max. DC Input Power	75000Wp						
Max.Input Voltage	1000V						
Rated Input Voltage	600V						
Starting Voltage	180V						
MPPT Voltage Range	150-850V						
Max. Input String Per MPPT	4/8						
Max. DC Input Current	4*40A						
Short-circuit Current	4*60A						
<b>Battery Parameter</b>							
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Charing/Discharging Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Charing/Discharging Current	80A*2						
Number of Battery Input Ports	2						
<b>Efficiency</b>							
Max. Efficiency	98.6%						
European Efficiency/CEC Efficiency	97.97%						
Max. Battery Charging/Discharging Efficiency	98%						
<b>General Data</b>							
Size(W*H*D)	850mm*550mm*295mm						
Weight	88kg						
Noise	55dB(A)						
Operating Temperature	-25°C~+60°C						
Operating Altitude	4000m(>3000m Derating)						
Humidity Range	0-100%						
Ingress Protection Grade	IP66						
Cooling Method	Intelligent Air Cooling						
Monitoring	LED+Bluetooth+APP, WIFI/LAN/4G						
Communication Port	RS485*1, Internet/WIFI/4G, DO*2, DI*2, AI*1, AO*1, DRM*1						
DC Power	12VDC 2A						

# On/off-grid | Single Phase | Low Voltage

Hybrid Inverter

1.5/2.2/3/4/5/6 kW



## Product Features

**Max. Efficiency 97.5%, 3-5% Higher than Average**

**125-250% PV Input Power  
PV Input Current 18A-36A**

**230-460% Grid Input Power,  
30A-60A Grid Input Current  
Supplying to Loads & Charging  
Battery in Parallel**

**3-years Standard Warranty**

**Support 176-264V AC  
Voltage Range**

**130-260% Overload  
>200% Generator Input**

**Mini-sized, Easier for Installation  
and Price-wise in Shipping**

**Support 6 Units in Parallel**

**Smart Fan, Ultra Silence  
Fan Running since 50% Rated  
Power Output**

Model Name	Isuna O1.5K-SL-G2	Isuna O2.2K-SL-G2	Isuna O3K-SL-G2	Isuna O4K-SL-G2	Isuna O5K-SL-G2	Isuna O6K-SL-G2
<b>Off-grid Output</b>						
Max. Output Power	1500VA	2200VA	3000VA	4000VA	5000VA	6000VA
Output Voltage&Range	220V/230V/240Vac±10%					
Rated Output Current	6.8A	10A	13.6A	18.2A	22.7A	27.2A
Peak Power&Duration	4kVA(10s)			8kVA(10s)		
Max. Generator Input	6KVA			12KVA		
<b>On-Grid Parameter</b>						
Max. AC Input Current	30A			60A		
Max. Load Power	4kW			8kW		
Max Output Power	1500VA	2200VA	3000VA	4000VA	5000VA	6000VA
Rated Output Current	6.8A	10A	13.6A	18.2A	22.7A	27.2A
On-Grid Voltage	220V/230V/240Vac					
Nominal AC Frequency	45-55Hz/55-65Hz					
Grid Voltage Range	176-264V					
THDi	<3%					
<b>PV Input</b>						
Max. DC Input Power	3750W			7500W		
Rated DC Input Voltage	360V					
Input Voltage Range	60-500V					
MPPT Voltage Range	60-500V					
Starting Voltage	72V					
Numbers of MPPT	1					
Max. DC Input Current	18A			36A		
Max. Short-circuit Current	22A			44A		
<b>Battery Parameter</b>						
Battery Type	Lithium-ion/Lead-Acid					
Rated Battery Voltage	48V					
Battery Voltage Range	42-58V					
Max. Discharge Current	62.5A			125A		
Max. Charge Current	62.5A			125A		
Charging Curve	3 stages					
<b>Efficiency</b>						
Europe Efficiency	97.2%	97.3%	97.3%	97.2%	97.3%	97.3%
Max.Efficiency	97.4%	97.5%	97.5%	97.4%	97.5%	97.5%
Max. Battery Charging/Discharging Efficiency	94.0%					
<b>General Data</b>						
Size(W*H*D)	315mm*280mm*80mm			345mm*305mm*98mm		
Weight	5.5kg			7kg		
Noise	<40dB(A)					
Operating Temperature	-25°C ~ +60°C (>40°C Derating)					
Operating Altitude	4000m (>2000m Derating)					
Cooling Method	Intelligent Air Cooling					
Mornitoring	LCD/LED/APP/WIFI/Bluetooth					
Communication Port	CAN+RS485					
Protection	Over Current/Voltage Protection;AC Short-circuit Protection;Over Temperature Protection					
Parallel Capability	Max. 6 Units					
Ingress Protect Degree	IP20					
<b>Certification</b>						
CE-LVD	EN 62109-2:2011 EN 62109-1:2010					
CE-EMC	EN61000-6-1, EN61000-6-2					










# On/off-grid | Single Phase | Low Voltage

Hybrid Inverter

3/4/5/6 kW



## Product Features

-  **200-400% Grid Input Power**  
54A Grid Input Current
-  **Support 184-276V AC Voltage Range, Support 45-65Hz Frequency**
-  **150-200% PV Input Power**  
18A PV Current, 2 MPPTs
-  **120-200% Overload**
-  **Smart Fan, Ultra Silence**
-  **6 Units in Parallel (Off-grid Mode)**
-  **<10ms On/Off-grid Switchover**
-  **> 200% Generator Input Power**  
Executive Generator Port  
Smart Monitoring
-  **IP65, Smaller Size**  
Easier for Installation and Price-wise in Shipping

Model Name	Isuna S3K-SL-S	Isuna S4K-SL-S	Isuna S5K-SL-S	Isuna S6K-SL-S
<b>Off-grid Output</b>				
Rated Output Power	3000W	4000W	5000W	6000W
Peak Power&Duration	7800W(10s)/9000W(1s)			
Rated Voltage	220V/230V/240V			
Rated Frequency	50/60Hz			
Rated Output Current	13.6A	18.2A	22.7A	27.2A
Output THDu	<2%			
Generator Input Current	54A			
<b>On-grid Parameter</b>				
Rated Output Power	3000W	4000W	5000W	6000W
Max. Output Current	13.6A	18.2A	22.7A	27.2A
Max. Input Current from Grid	54A			
Rated Grid Voltage	220V/230V/240V			
Grid Voltage Range	184-276V			
Frequency Range	45-65Hz			
<b>PV Input</b>				
Max. Input Power	9000Wp			
Starting Voltage	95V			
Max. Input Voltage	500V			
MPPT Voltage Range	80-500V			
Number of MPPT	2			
Max. Input String Per MPPT	1			
Rated Input Voltage	360V			
Max. Input Current	18A/18A			
Short-Circuit Current	22A/22A			
<b>Battery Parameter</b>				
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion			
Rated Battery Voltage	51.2V			
Battery Voltage Range	30-60V			
Max. Charging Voltage	≤60V			
Battery Charging/Discharging Current	125A			
<b>Efficiency</b>				
Max. Efficiency	97.5%	97.6%	97.6%	97.6%
European Efficiency	97.2%	97.2%	97.2%	97.2%
Max. Battery Charging/Discharging Efficiency	94%			
<b>General Data</b>				
Size(W*H*D)	325mm*480mm*188.5mm			
Weight	21kg			
Noise	<45dB(A)			
Operating Temperature	-25°C~+60°C (>45°C Derating)			
Operating Altitude	4000m (>3000m Derating)			
Cooling Method	Intelligent Air Cooling			
Ingress Protection Grade	IP65			
Monitoring	LCD/APP/WIFI/Bluetooth/4G/LAN			
Communication Port	RS485/CAN/DO/Parallel port			
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery); Lightning Protection			
<b>Certification</b>				
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1			
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920			










# On/off-grid | Three Phase | Low Voltage

Hybrid Inverter

5/6/8/9 kW



## Product Features

- 
**200-400% Grid Input Power**  
**18.2A Grid Input Current**
- 
**Support 185-276V AC Voltage Range, Support 45-65Hz Frequency**
- 
**150-200% PV Input Power**  
**20A PV Current, 2 MPPTs**
- 
**200-400%-10s Overload**
- 
**Smart Fan, Ultra Silence**
- 
**6 Units in Parallel (Off-grid Mode)**
- 
**<10ms On/Off-grid Switchover**
- 
**> 200% Generator Input Power**  
**Executive Generator Port**  
**Smart Monitoring**
- 
**IP65, Smaller Size**  
**Easier for Installation and Price-wise in Shipping**

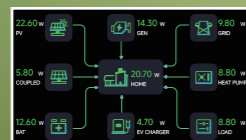
Model Name	Isuna C5K-TL-S	Isuna C6K-TL-S	Isuna C8K-TL-S	Isuna C9K-TL-S
<b>Off-grid Output</b>				
Rated Output Power	5kW	6kW	8kW	9kW
Peak Power&Duration	5.5kWA	6.6kWA	8.8kWA	9kWA
Max. Output Current	7.6/7.2A	9.1/8.7A	12.1/11.6A	13.6/13A
Peak Power & Duration	14kW-10s*			
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Frequency	50/60Hz			
THDu	<3%			
Switching Time	<10ms			
GEN Max. Current	18.2A			
GEN Voltage Range	185-276V(P2N)			
<b>On-grid Parameter</b>				
Rated Output Power	5kW	6kW	8kW	9kW
Max. Output Power	5.5kWA	6.6kWA	8.8kWA	9kWA
Rated Output Current	7.6/7.2A	9.1/8.7A	12.1/11.6A	13.6/13A
Max. Grid Input Current	15.2A	18.2A	21.2A	21.2A
Rated Grid Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Grid Voltage range	185-276V (P2N)			
Grid Frequency	50/60±5Hz			
Thdi	<3%			
<b>PV Input</b>				
Max. DC Input Power	10kWp	12kWp	14kWp	14kWp
Starting Voltage	140V			
Max.Input Voltage	800V			
MPPT Voltage Range	130V-800V			
MPPT Numbers	2			
Strings Per MPPT	1/1			
Max. DC Input Current	20A/20A			
Max. Short-circuit Current	24A/24A			
<b>Battery Parameter</b>				
Battery Type	Lithium-ion/Lead-acid/Sodium-ion			
Number of Battery Input	1			
Battery Voltage Range	30-60V			
Max. Chg&Dchg Current	125A			
<b>Efficiency</b>				
Max. Efficiency	97.80%			
European Efficiency	97.30%			
Max. Battery Chg&Dchg Efficiency	95.00%			
<b>General Data</b>				
Size(W*H*D)	380*500*180mm			
Weight	25kg			
Noise	<45dB(A)			
Operating Temperature	-25°C~+60°C (>45°C Derating)			
Operating Altitude	4000m (>3000m Derating)			
Battery Topology	Isolation			
Cooling Method	Intelligent Air Cooling			
Ingress Protection Grade	IP65			
Communication Port	RS485*1,Wi-Fi/4G dongle*1,DO*2,DRM*1			
Protection	DC Switch ; Reverse Polarity Protection ; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection ; Residual Current Monitoring ; Insulation Resistance Detection; Surge Protection: DC Type II / AC Type III ; Battery Reverse Protection			
<b>Certification</b>				
Safety Regulation	IEC62109-1&2, IEC62040-1			
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4 EN 61000-4-16, EN 61000-4-18,EN 61000-4-29			

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

# On/off-grid | Single Phase | Low Voltage

Hybrid Inverter


5/6/8/10/12kW





## Product Features

 **SiC Technology,**  
Max.Efficiency 98.2%


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


 **150-340% Grid Input Power,**  
**Max. 60A Grid Input Current**  
**Supplying to Loads & Charging**  
**Battery in Parallel**

 **Support 185-276V**  
**AC Voltage Range**  
**166-400% Overload**

 **150%-200% PV Input Power,**  
**3 MPPTs, PV Input Current 20A,**  
**Higher Compatibility with**  
**PV Panel**

 **6 Units in Parallel**  
**(Off-grid Mode)**

 **Smart Fan, Ultra Silence**  
**Fan Running since 50%**  
**Rated Power Output**

 **Executive Generator Port,**  
**Smart Monitoring**  
**Max.Generator Input**  
**Current 80A**

 **165mm Ultra-thin, IP65**

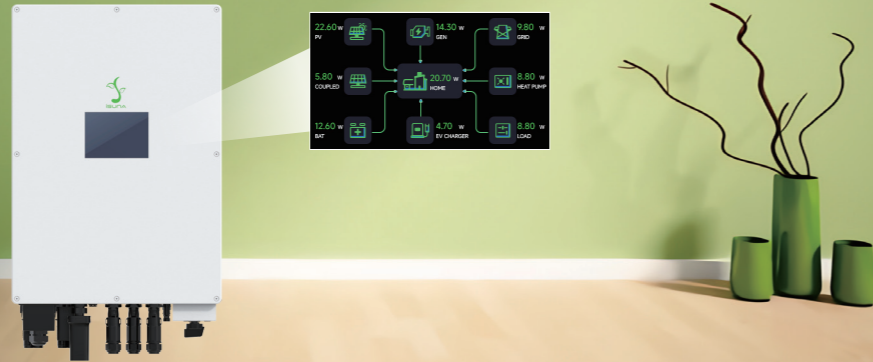
Model Name	Isuna D5K-SL-S	Isuna D6K-SL-S	Isuna D8K-SL-S	Isuna D10K-SL-S	Isuna D12K-SL-S
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	60A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	82A				
GEN Voltage Range	185-276V(P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	25A	30A	40A	50A	60A
Max. Input Power	18kVA				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
<b>General Data</b>					
Size(W*H*D)	465mm*665mm*175mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Isolation				
Communication Port	RS485*1, Wi-Fi/4G dongle*1, DO*2, DRM*1				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCI(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62477-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				
Grid	VDE-AR-N 4105; VDE 0126-1-1 EN 50549-1; G98, G100; CEI 0-21; AS/NZS4777.2 NRS 097-2-1				

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

# On/off-grid | Three Phase | Low Voltage

Hybrid Inverter

5/6/8/10/12kW



## Product Features

**SiC Technology,**  
Max. Efficiency 98.2%

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

**200-480% Grid Input Power, Max.24kW, Supplying to Loads & Charging Battery in Parallel**

**Support 185-276V AC Voltage Range**

**150%-200% PV Input Power, 3 MPPTs, PV Input Current 20A, Higher Compatibility with PV Panel**

**166-400% Overload**

**6 Units in Parallel (Off-grid Mode)**

**Executive Generator Port, Smart Monitoring Max.Generator Input Current 80A**

**165mm Ultra-thin, IP65**

Model Name	Isuna D5K-TL-S	Isuna D6K-TL-S	Isuna D8K-TL-S	Isuna D10K-TL-S	Isuna D12K-TL-S
<b>Off-grid Output</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	36.4A				
GEN Voltage Range	185-276V(P2N)				
<b>On-grid Parameter</b>					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16A	20A
Max. Input Power	24kVA				
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage range	185-276V (P2N)				
Grid Frequency	50/60±5Hz				
<b>PV Input</b>					
Max. Input Power	18KW				
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
<b>Battery Parameter</b>					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
<b>Efficiency</b>					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
<b>General Data</b>					
Size(W*H*D)	465mm*665mm*175mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Battery Topology	Isolation				
Communication Port	LED/WIFI/4G/Bluetooth/RS485				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCI(Optional); PID(Optional)				
<b>Certification</b>					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3,EN61000-6-4 EN 61000-4-16, EN 61000-4-18,EN 61000-4-29				
Grid	VDE-AR-N 4105;VDE 0126-1-1 EN 50549-1;G98,G100; CEI 0-21;AS/NZS4777.2 NRS 097-2-1				










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

# On/off-grid | Three Phase | High Voltage Hybrid Inverter

22/25/29.9/30/40/42.5/50kW




## Product Features


-  **SiC Technology, Max. Efficiency 98.6%**
-  **2 Independent Battery Ports for Mixture Use of Old & New Battery**
-  **150%-340% PV Input Power, 4 MPPTs, PV Input Current 40A, Higher Compatibility with PV Panel**
-  **200%-470% Grid Input Power, 150A Grid Input Current Supplying to Loads & Charging Battery in Parallel**
-  **150% Overload, AFCI Function(Optional)**
-  **Smaller Size, Easier for Installation and Price-wise in Shipping**
-  **Executive Generator Port, Smart Monitoring Max.Generator Input Current 150A**
-  **Battery Current 160A, High Adapability with Battery**
-  **6 Units in Parallel (Off-grid Mode)**

Model Name	Isuna L22K-TH-S	Isuna L25K-TH-S	Isuna L29.9K-TH-S	Isuna L30K-TH-S	Isuna L40K-TH-S	Isuna L42.5K-TH-S	Isuna L50K-TH-S
<b>Off-grid Output</b>							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Apparent Power	24.2kVA	27.5kVA	29.9kVA	33kVA	44kVA	42.5kVA	55kVA
Rated Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Max. Output Current	35.1A	39.9A	43.5A	47.9A	63.8A	61.6A	79.8A
Peak Power & Duration	150%(10s)						
Generator Input Current	150A						
THDu	<3%						
<b>On-grid Parameter</b>							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Grid Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Grid Input Current	150A						
<b>PV Input</b>							
Max. DC Input Power	75000Wp						
Max.Input Voltage	1000V						
Rated Input Voltage	600V						
Starting Voltage	180V						
MPPT Voltage Range	150-850V						
Max. Input String Per MPPT	4/8						
Max. DC Input Current	4*40A						
Short-circuit Current	4*60A						
<b>Battery Parameter</b>							
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Charing/Discharging Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Charing/Discharging Current	80A*2						
Number of Battery Input Ports	2						
<b>Efficiency</b>							
Max. Efficiency	98.6%						
European Efficiency/CEC Efficiency	97.97%						
Max. Battery Charging/Discharging Efficiency	98%						
<b>General Data</b>							
Size(W*H*D)	850mm*550mm*295mm						
Weight	88kg						
Noise	55dB(A)						
Operating Temperature	-25°C~+60°C						
Operating Altitude	4000m(>3000m Derating)						
Humidity Range	0-100%						
Ingress Protection Grade	IP66						
Cooling Method	Intelligent Air Cooling						
Monitoring	LED+Bluetooth+APP, WIFI/LAN/4G						
Communication Port	RS485*1, Internet/WIFI/4G, DO*2, DI*2, AI*1, AO*1, DRM*1						
DC Power	12VDC 2A						





## 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-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	30kWp	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





## 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
<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
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						
<b>On-grid Parameter</b>							
Rated Grid Voltage	120V/240V/208V (240V/208V Single phase support)						
Input Power from Grid	48kW						
Input Current from Grid	200A						
<b>PV Input</b>							
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
<b>Battery Parameter</b>							
Battery Type	Lithium-ion/Lead-acid						
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 Part 15: 2021						

\*Overload output must include sufficient PV output