



CÔNG TY TNHH NĂNG LƯỢNG QUANG ĐIỆN

Địa chỉ: Số 182, Đường Hoàng Công Thản, Xích Thổ, An Hải, Hải Phòng

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Website: bientansinexcel.com



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



Residential Solar Storage Inverter

Product Brochure

Power with Isuna, Energy with Ease



CHỨNG CHỈ NĂNG LỰC HOẠT ĐỘNG XÂY DỰNG

SỞ XÂY DỰNG
HẢI PHÒNG

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

CHỨNG CHỈ
NĂNG LỰC HOẠT ĐỘNG XÂY DỰNG

Số: HAP-00085306

(Ban hành kèm theo Quyết định số: 645/QĐ-SXD ngày 20/11/2024)

Tên tổ chức: CÔNG TY TNHH NĂNG LƯỢNG QUANG ĐIỆN
Giấy chứng nhận đăng ký doanh nghiệp/ Quyết định thành lập số: 0202040301.
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Tên người đại diện theo pháp luật: Ông Nguyễn Đình Chiến Chức vụ: Chủ tịch hội đồng thành viên; Ông Nguyễn Đình Công Chức vụ: Giám đốc.
Địa chỉ trụ sở chính: Xóm 2 Xích Thổ (tại nhà ông Nguyễn Đình Mớ), Xã Hồng Thái, Huyện An Dương, Thành phố Hải Phòng.
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E-mail: Solar@lapdienmatroi.com Website: www.quangdien.com.vn
Phạm vi hoạt động xây dựng:

- Thiết kế, thẩm tra thiết kế xây dựng công trình công nghiệp năng lượng hạng III.
- Thi công công tác xây dựng công trình: dân dụng, công nghiệp năng lượng hạng III.
- Thi công lắp đặt thiết bị vào công trình hạng III.
- Tư vấn giám sát thi công công tác xây dựng công trình công nghiệp năng lượng hạng III.

Chứng chỉ này có giá trị đến hết ngày: 20/11/2034.

Hải Phòng, ngày 20 tháng 11 năm 2024

KT. GIÁM ĐỐC
PHÓ GIÁM ĐỐC

SỞ XÂY DỰNG
HẢI PHÒNG

Đỗ Hữu Hưng



CHỨNG NHẬN NHÀ PHÂN PHỐI ỦY QUYỀN
THƯƠNG HIỆU SINEXCE ISUNA

SINEXCEL
ISUNA

CERTIFICATE OF AUTHORIZED DISTRIBUTOR

This is to certify that Shenzhen Sinexcel Isuna Energy Technology Co., Ltd.
The trademark owner of Sinexcel Isuna brand has authorized

QUANG DIEN ENERGY COMPANY LIMITED

182 Hoang Cong Than Street, Xich Tho Hamlet, An Hai Ward, Hai Phong City, Vietnam
as **Golden Distributor** of our products, entitled to do market promotions
in our brands and provide service, maintenance, training for our products,etc.

Authorized region: Vietnam
Duration of Validity: September 1, 2025, - August 31, 2026

September 1, 2025
Date of Issue

SINEXCEL ISUNA ENERGY TECHNOLOGY CO., LTD.

Sinexcel Isuna
Authorized By

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.



2

Production Bases



13%

R&D Investment



700+

R&D Engineers



15 Years

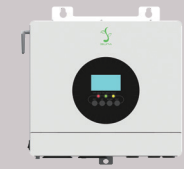
In Storage Inverter

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



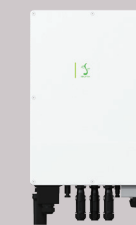
Three Phase HV 22-50kW



Single Phase LV
5-12kW



Three Phase LV
5-12kW



Single Phase HV
5-12kW



Three Phase HV
5-12kW

Residential Solar storage Inverter

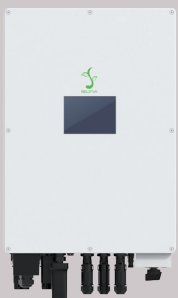
Hybrid Inverter with LCD Display
(for Middle East, Africa, Asia market)



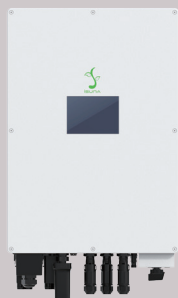
Single Phase LV 3-6kW



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(48V)	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



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
Off-grid Output							
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)
Grid Parameter							
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%						
PV Input							
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		
Battery Parameter							
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		
Efficiency							
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%						
General Data							
Size(W*H*D)	360mm*470mm*114mm				400mm*620mm*210mm		
Weight	14kg				29kg		
Noise	<45dB(A)						
Operating Temperature	-25℃~+60℃（>55℃ 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						
Certification							
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
Off-grid Output			
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		
On-grid Parameter			
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%		
PV Input			
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		
Battery Parameter			
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		
Efficiency			
Europe Efficiency	97.2%	97.3%	97.3%
Max.Efficiency	97.4%	97.5%	97.5%
Max. Battery Charging/Discharging Efficiency	94.0%		
General Data			
Size(W*H*D)	315mm*280mm*80mm		
Weight	5.5kg		
Noise	<40dB(A)		
Operating Temperature	-25℃ ~ +60℃ (>55℃ 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		
Certification			
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 O1.5K-SOL-G2	Isuna O2.2K-SOL-G2	Isuna O3K-SOL-G2	Isuna O4K-SOL-G2	Isuna O5K-SOL-G2	Isuna O6K-SOL-G2
Off-grid Output						
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		
On-Grid Parameter						
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%					
PV Input						
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		
Battery Parameter						
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					
Efficiency						
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%					
General Data						
Size(W*H*D)	315mm*280mm*80mm			345mm*305mm*98mm		
Weight	5.5kg			7kg		
Noise	<40dB(A)					
Operating Temperature	-25℃~ +60℃ (>40℃ 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					
Certification						
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
- 

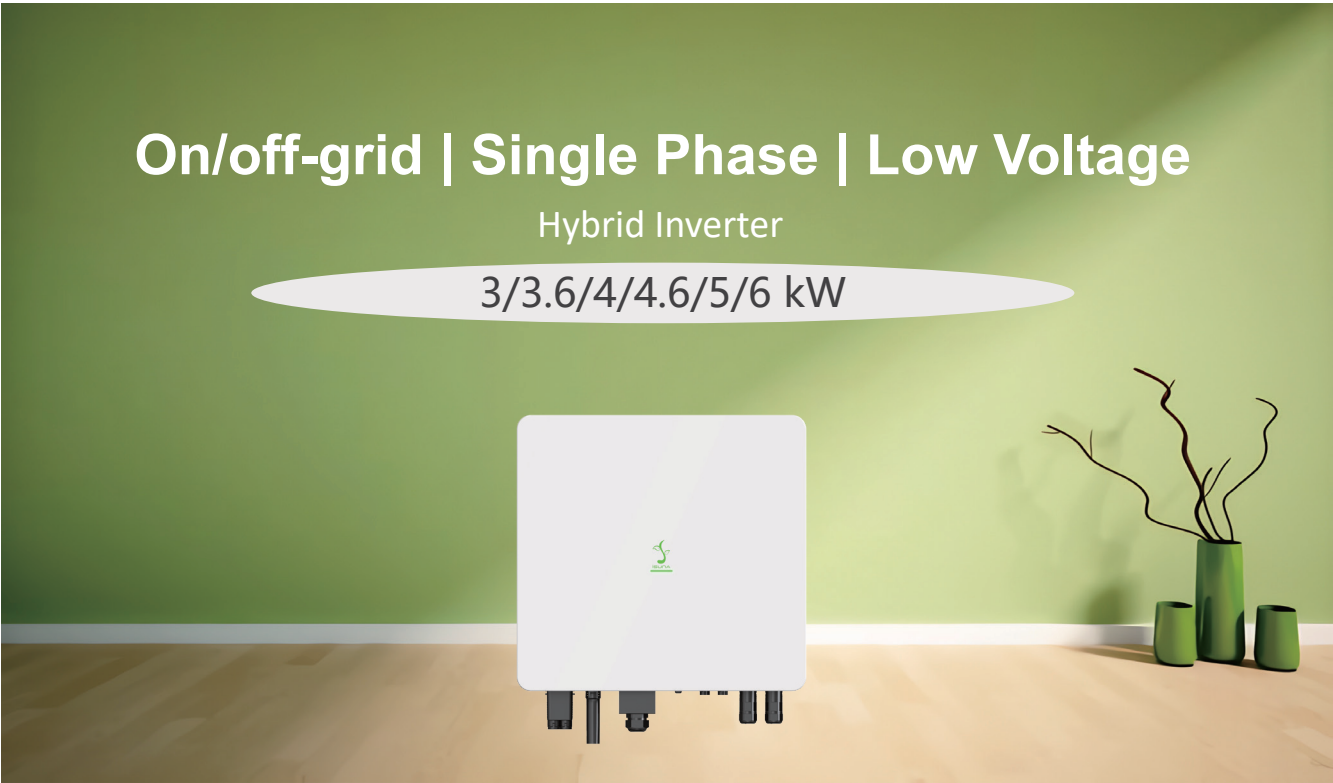
150-200% PV Input Power
- 

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

SINEXCEL				isuna	
Model Name	Isuna 10000TO	Isuna 12000TO	Isuna 15000TO	Isuna 18000TO	Isuna 20000TO
Off-grid Output					
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%				
Grid Parameter					
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				
PV Input					
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				
Battery Parameter					
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				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
General Data					
Size(W*H*D)	573mm*509mm*219mm				
Weight	35kg				
Noise	<45dB(A)				
Operating Altitude	5000m (>3000m Derating)				
Operating Temperature	-25℃~+60℃				
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				



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
- 

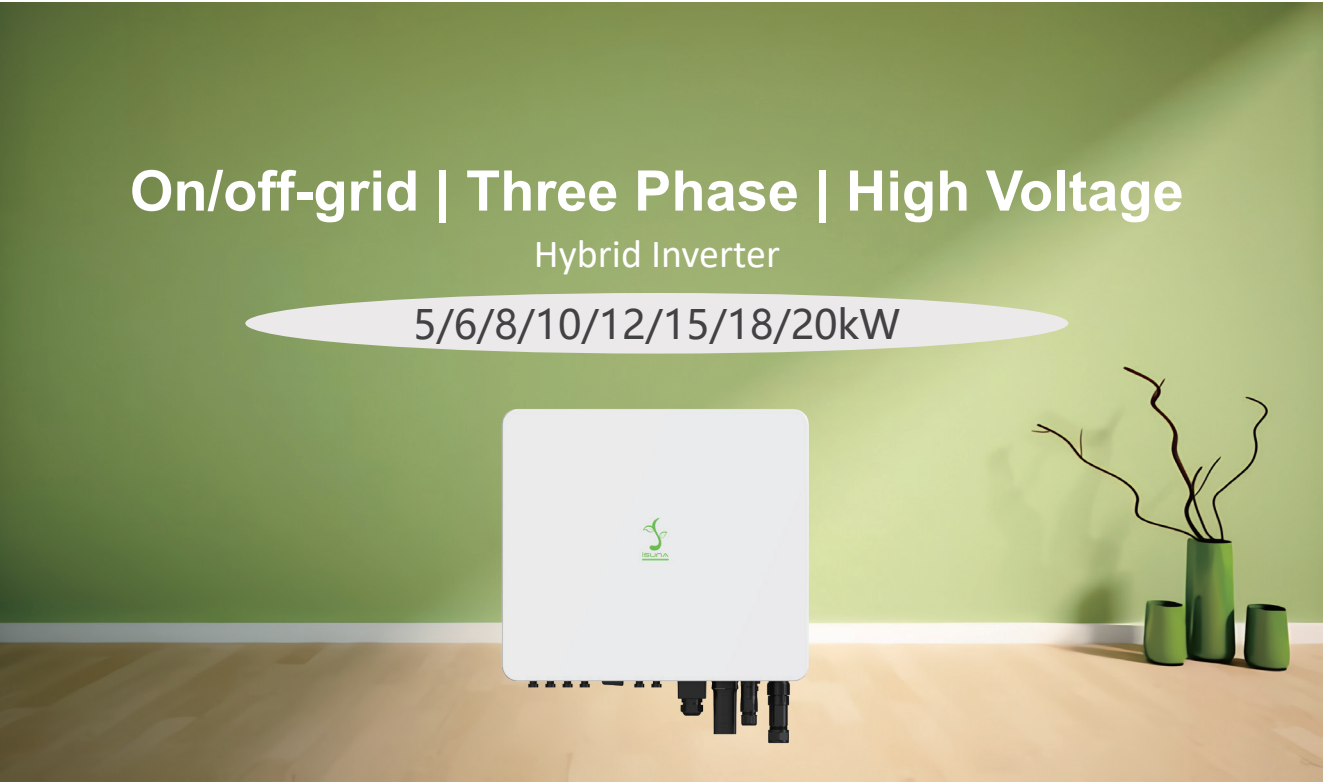
Without LCD/LED Display Design, Higher Reliability
- 

Support AC Couple
- 

Self-owned APP,
Support Adding New Language

Model Name	Isuna 3000S	Isuna 3600S	Isuna 4000S	Isuna 4600S	Isuna 5000S	Isuna 6000S
Off-grid Output						
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)*					
On-grid Parameter						
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					
PV Input						
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					
Battery Parameter						
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		
Efficiency						
Max. Efficiency	97.5%		97.8%		98.0%	
European Efficiency	97.2%		97.3%		97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%					
General Data						
Size(W*H*D)	500mm*470mm*180mm					
Weight	21kg					
Noise	<25dB(A)					
Operating Temperature	-25℃~+60℃ （>45℃ 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					
Certification						
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



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)
- 

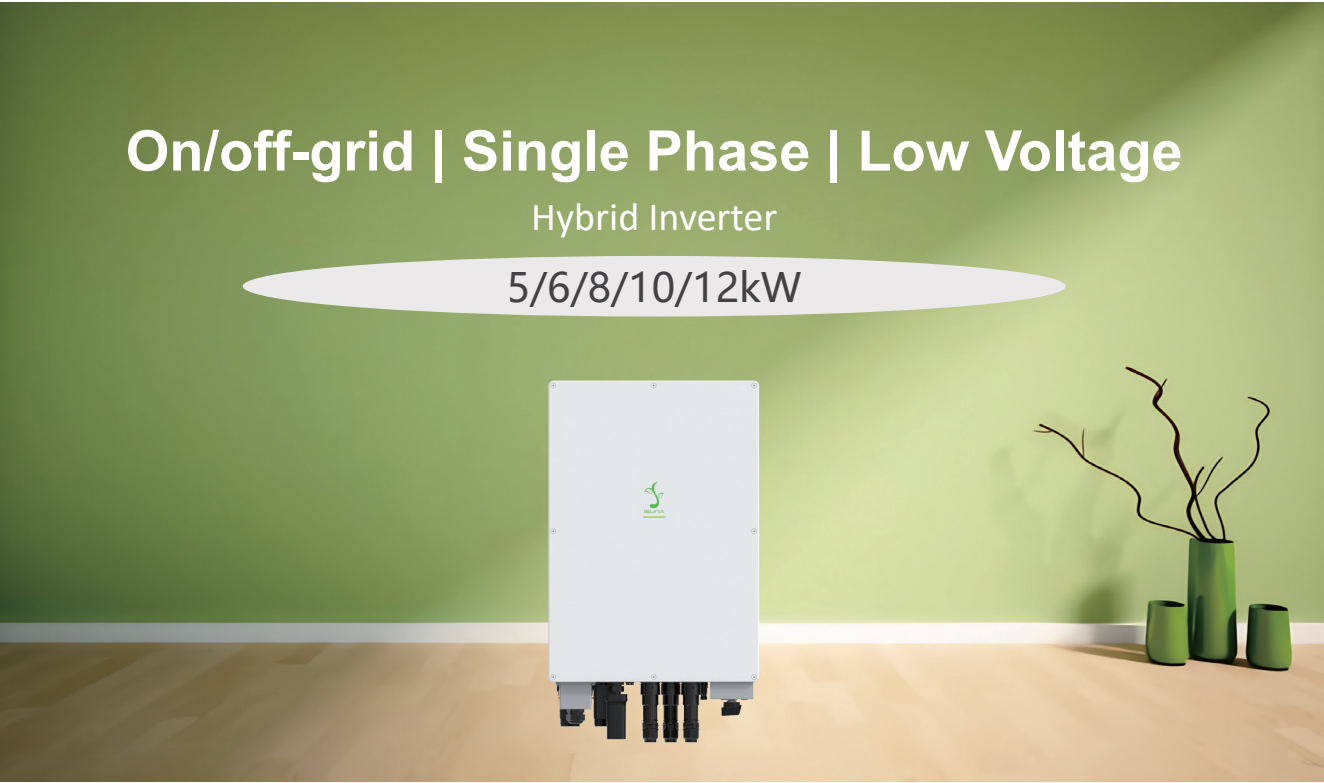
150-200% PV Input Power
- 

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
Off-grid Output								
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%							
On-grid Parameter								
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							
PV Input								
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							
Battery Parameter								
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							
Efficiency								
Max. Efficiency	98.20%							
European Efficiency	97.70%							
Max. Battery Charging/Discharging Efficiency	97.80%							
General Data								
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							
Certification								
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							



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 Compability
with Sodium-ion Battery
- 

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

Model Name	Isuna D5K-SL	Isuna D6K-SL	Isuna D8K-SL	Isuna D10K-SL	Isuna D12K-SL
Off-grid Output					
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)				
On-grid Parameter					
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	18kW				
Grid Frequency	50/60±5Hz				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General Data					
Size(W*H*D)	465mm*665mm*165mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25℃~-+60℃ (>45℃ 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)				
Certification					
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



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
- 

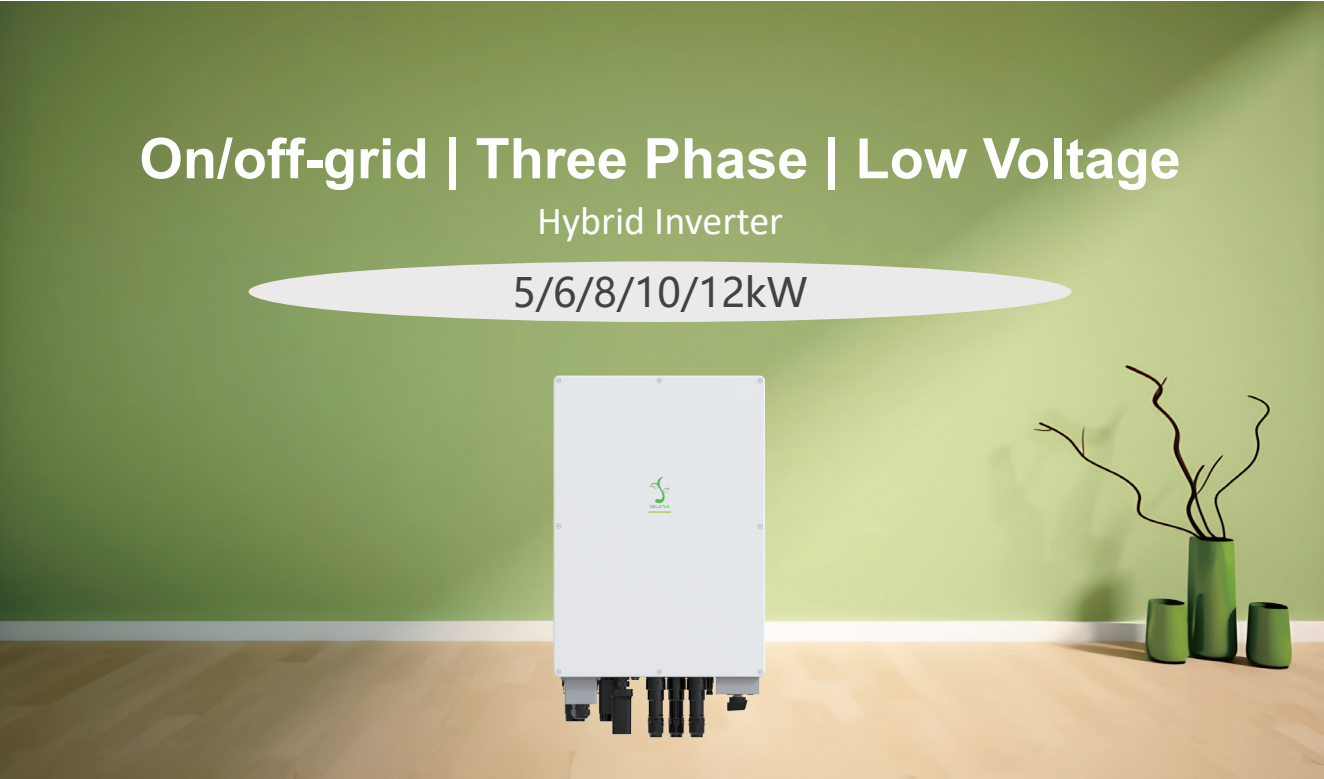
Executive Generator Port, Smart Monitoring
Max.Generator Input Current 82A
- 

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
Off-grid Output					
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)				
On-grid Parameter					
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	18kWA				
Grid Frequency	50/60±5Hz				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
General Data					
Size(W*H*D)	400mm*575mm*165mm				
Weight	26kg				
Noise	<45dB(A)				
Operating Temperature	-25℃~-+60℃ (>45℃ 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)				
Certification					
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



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
Off-grid Output					
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)				
On-grid Parameter					
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				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General Data					
Size(W*H*D)	465mm*665mm*165mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25℃~-+60℃ (>45℃ 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)				
Certification					
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				



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)
AFCI/PID Function (Optional)

Model Name	Isuna D5K-TH	Isuna D6K-TH	Isuna D8K-TH	Isuna D10K-TH	Isuna D12K-TH
Off-grid Output					
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)				
On-grid Parameter					
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				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
General Data					
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; AFCI(Optional); PID(Optional)				
Certification					
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



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
Off-grid Output							
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%						
On-grid Parameter							
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						
PV Input							
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						
Battery Parameter							
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Charing/Discharing Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Charing/Discharing Current	80A*2						
Number of Battery Input Ports	2						
Efficiency							
Max. Efficiency	98.6%						
European Efficiency/CEC Efficiency	97.97%						
Max. Battery Charging/Discharging Efficiency	98%						
General Data							
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

- 

**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**
- 

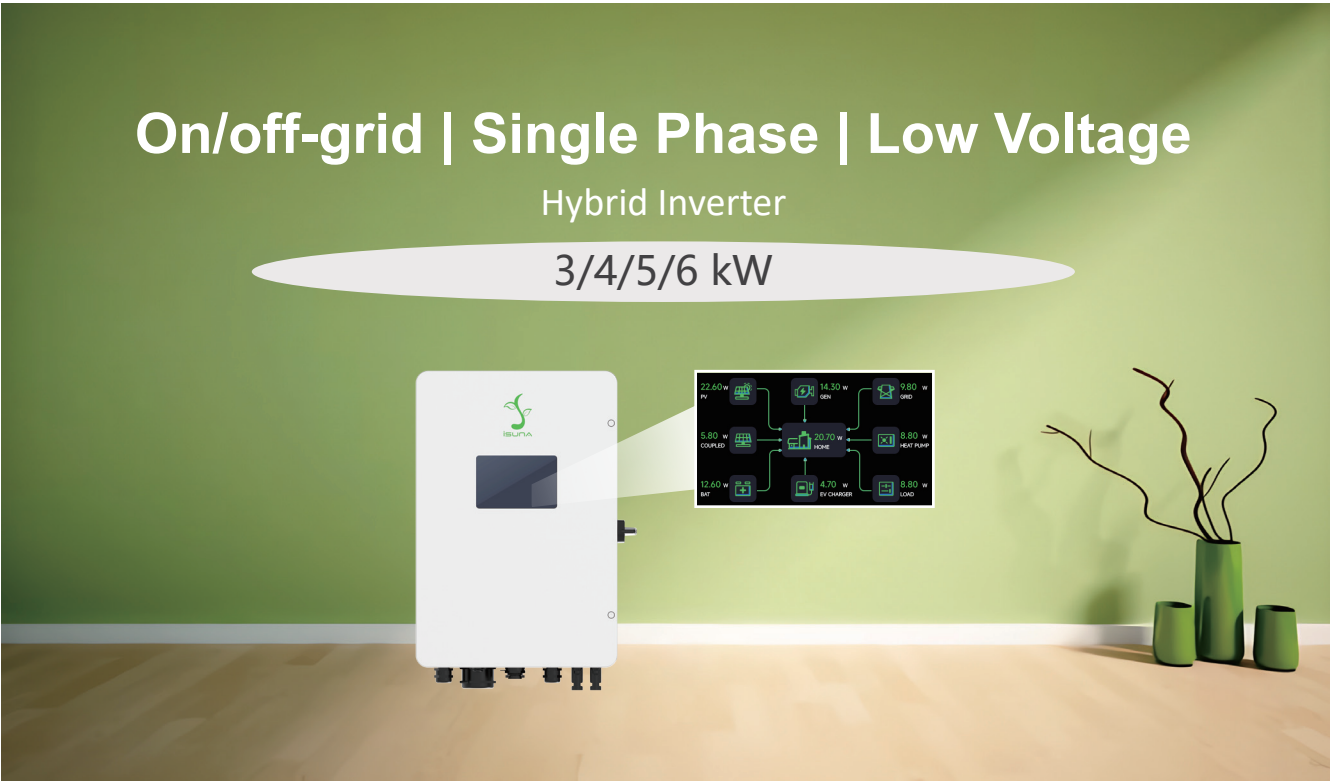
**130-260% Overload
> 200% Generator Input**
- 

**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**

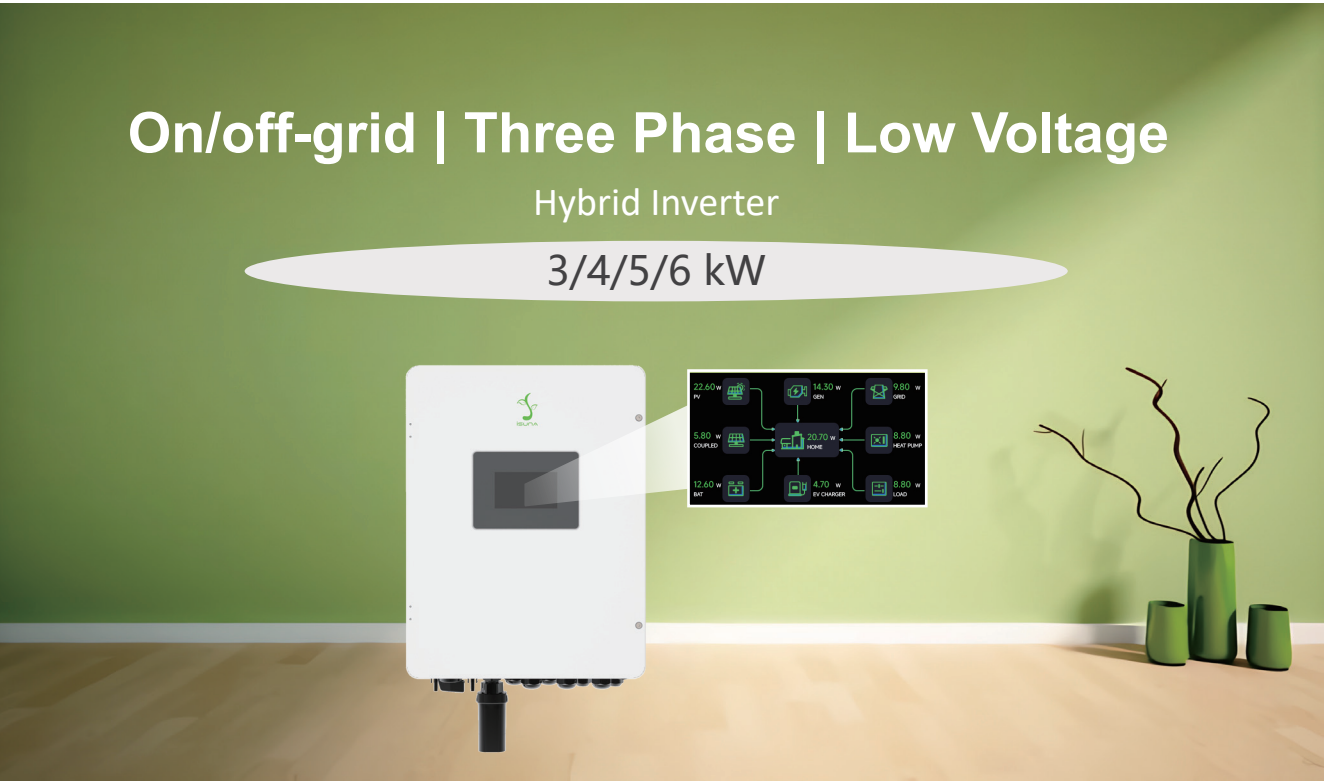
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Model Name	Isuna O1.5K-SL-G2	Isuna O2.2K-SL-G2	Isuna O3K-SL-G2	Isuna O4K-SL-G2	Isuna O5K-SL-G2	Isuna O6K-SL-G2
Off-grid Output						
Max. Output Power	1500VA	2200VA	3000VA	4000VA	5000VA	6000VA
Output Voltage&Range	220V/230V/240Vac±10%					
Rated Output Current	6.8A	10A	13.6A	18.2A	22.7A	27.2A
Peak Power&Duration	4kVA(10s)			8kVA(10s)		
Max. Generator Input	6KVA			12KVA		
On-Grid Parameter						
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%					
PV Input						
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		
Battery Parameter						
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					
Efficiency						
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%					
General Data						
Size(W*H*D)	315mm*280mm*80mm			345mm*305mm*98mm		
Weight	5.5kg			7kg		
Noise	<40dB(A)					
Operating Temperature	-25℃~+60℃ (>40℃ 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					
Certification						
CE-LVD	EN 62109-2:2011 EN 62109-1:2010					
CE-EMC	EN61000-6-1, EN61000-6-2					



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
Off-grid Output				
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			
On-grid Parameter				
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			
PV Input				
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			
Battery Parameter				
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			
Efficiency				
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%			
General Data				
Size(W*H*D)	325mm*480mm*188.5mm			
Weight	21kg			
Noise	<45dB(A)			
Operating Temperature	-25℃~+60℃（>45℃ Derating）			
Operating Altitude	4000m (>3000m Derating)			
Cooling Method	Intelligent Air Cooling			
Ingress Protection Grade	IP65			
Mornitoring	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			
Certification				
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			



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

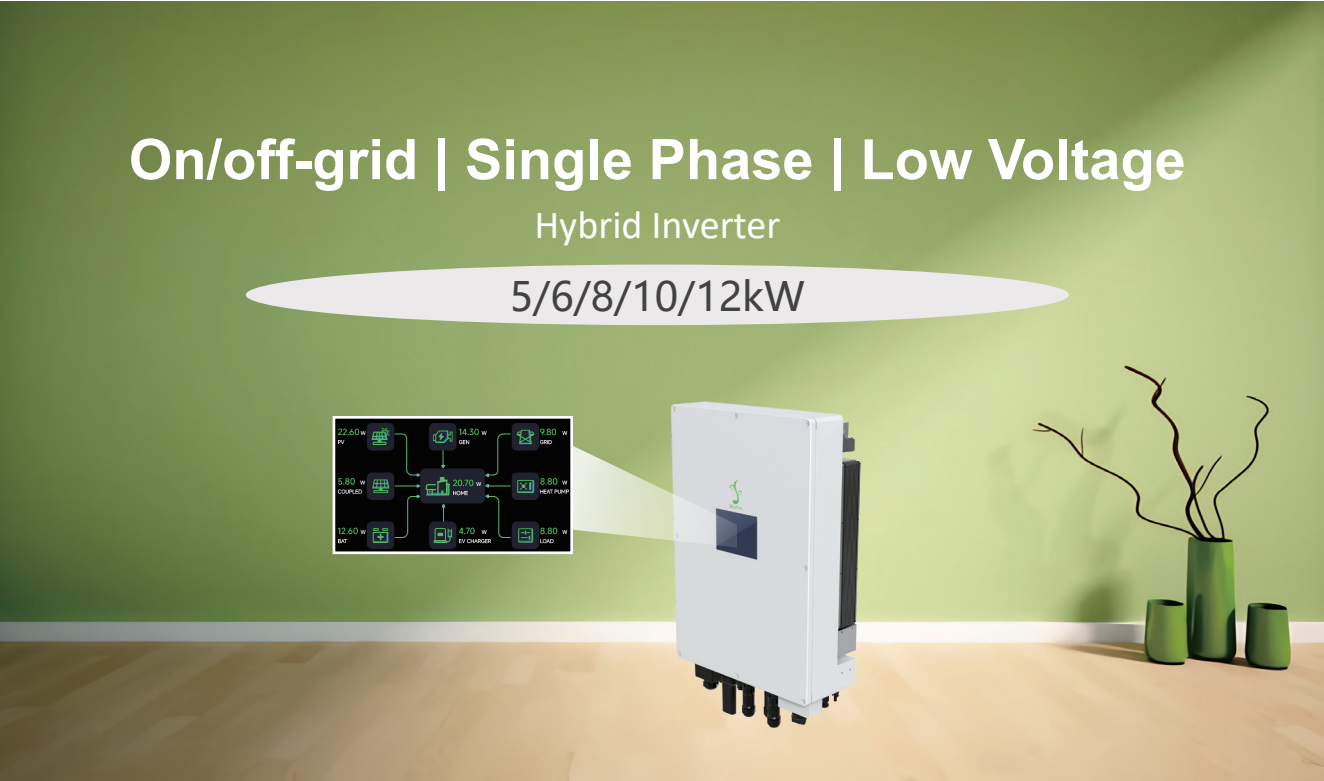
Smart Monitoring
- 

IP65, Smaller Size

Easier for Installation and Price-wise in Shipping

SINEXCEL			isuna	
Model Name	Isuna C3K-TL-S	Isuna C4K-TL-S	Isuna C5K-TL-S	Isuna C6K-TL-S
Off-grid Output				
Rated Output Power	3kW	4kW	5kW	6kW
Peak Power&Duration	3.3kWA	4.4kWA	5.5kWA	6.6kWA
Max. Output Current	5A	7A	8.5A	10A
Peak Power & Duration	12kW-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)			
On-grid Parameter				
Rated Output Power	3kW	4kW	5kW	6kW
Max. Output Power	3.3kWA	4.4kWA	5.5kWA	6.6kWA
Max. Output Current	5A	7A	8.5A	10A
Max. Input Power	12kW			
Rated Grid Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Grid Voltage range	185-276V （P2N）			
Grid Frequency	50/60±5Hz			
Thdi	<3%			
PV Input				
Max. DC Input Power	6000Wp	8000Wp	9000Wp	9000Wp
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			
Battery Parameter				
Battery Type	Lithium-ion/Lead-acid/Sodium-ion			
Number of Battery Input	1			
Battery Voltage Range	30-60V			
Max. Chg&Dchg Current	125A			
Efficiency				
Max. Efficiency	97.80%			
European Efficiency	97.30%			
Max. Battery Chg&Dchg Efficiency	95.00%			
General Data				
Size(W*H*D)	380*500*180mm			
Weight	25kg			
Noise	<45dB(A)			
Operating Temperature	-25℃~+60℃ （>45℃ 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			
Certification				
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

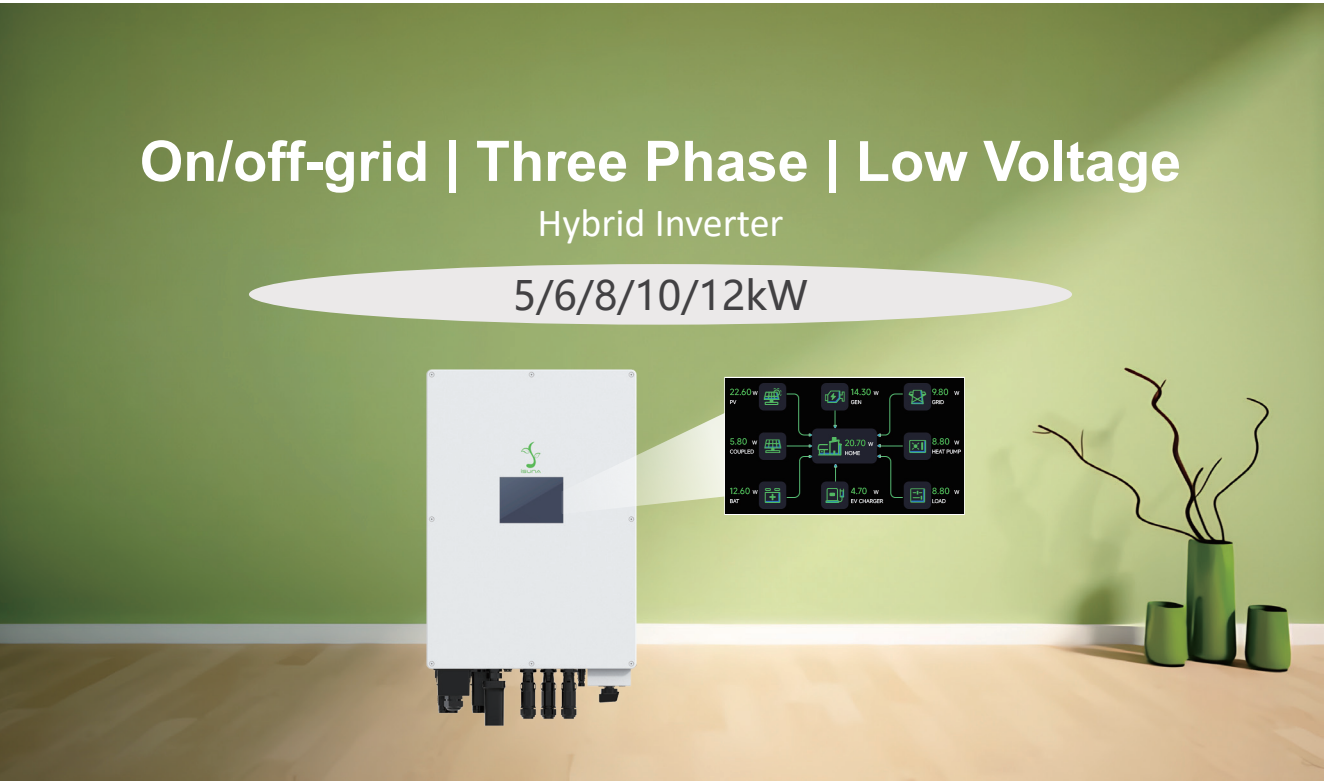


Product Features

- **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
Off-grid Output					
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)				
On-grid Parameter					
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				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General Data					
Size(W*H*D)	465mm*665mm*175mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25℃~-+60℃ (>45℃ 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)				
Certification					
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



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

SINEXCEL				isuna	
Model Name	Isuna D5K-TL-S	Isuna D6K-TL-S	Isuna D8K-TL-S	Isuna D10K-TL-S	Isuna D12K-TL-S
Off-grid Output					
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)				
On-grid Parameter					
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				
PV Input					
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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	30-60V				
Battery Charging/Discharging Current	125A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	95.00%				
General Data					
Size(W*H*D)	465mm*665mm*175mm				
Weight	36kg				
Noise	<45dB(A)				
Operating Temperature	-25℃~-+60℃ (>45℃ 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)				
Certification					
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				

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
Off-grid Output							
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%						
On-grid Parameter							
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						
PV Input							
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						
Battery Parameter							
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Charing/Discharing Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Charing/Discharing Current	80A*2						
Number of Battery Input Ports	2						
Efficiency							
Max. Efficiency	98.6%						
European Efficiency/CEC Efficiency	97.97%						
Max. Battery Charging/Discharging Efficiency	98%						
General Data							
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						