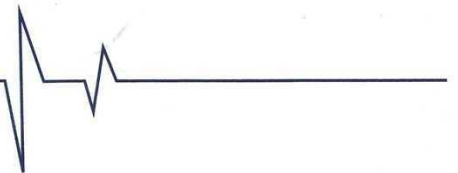




Residential Solar Storage Inverter

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 have 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. We offer hybrid inverter and off-grid inverter, including single phase, three phase, split phase, with power range covering 3-50kW.

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



14 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



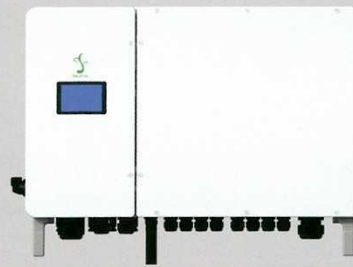
Three Phase HV
5-12kW

Residential Solar storage Inverter

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



Single Phase LV 3-6kW



Three Phase HV 22-50kW



Single Phase LV 5-12kW



Three Phase LV 5-12kW

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 3-6kW-----	P27
Single phase LV hybrid inverter 5-12kW-----	P29
Three phase LV hybrid inverter 5-12kW-----	P31
Three phase HV hybrid inverter 22-50kW-----	P33

Split Phase Inverter

Split inverter HV hybrid inverter 5-20kW-----	P35
Split inverter HV off-grid inverter 5-20kW-----	P37

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
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	<25dB						
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						
Certification							
CE-LVD	EN 62109-2:2011, EN 62109-1:2010						
CE-EMC	EN 61000-6-1, EN 61000-6-2						

Off-grid | Single Phase | Low Voltage

Hybrid Inverter

1.5/2.2/3kW



Product Features



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



**125-250% PV Input Power,
PV Input Current 18A-36A,
Higher Compatibility with
PV Panel**



**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-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		
Rated AC 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	60V		
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		
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		
Certification			
CE-LVD	EN 62109-2:2011 EN 62109-1:2010		
CE-EMC	EN61000-6-1, EN61000-6-2		

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-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		
Grid Parameter						
Max. AC Input Current	30A			60A		
Max. Load Power	4kW			8kW		
Rated AC 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	60V					
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					
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					
Certification						
CE-LVD	EN 62109-2:2011 EN 62109-1:2010					
CE-EMC	EN61000-6-1, EN61000-6-2					

Off-grid | Three Phase | High Voltage

Hybrid Inverter

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



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
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(optional)				
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				
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				

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
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 (optional)					
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					
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

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
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(optional)							
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							
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							

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 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	12kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	54.5A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	77.3A	82A	82A	82A	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	12kVA
Max. Output Current	25A	30A	40A	50A	54.5A
Max. Input Power	18kW				
Grid Frequency	50/60±5Hz				
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25℃~+60℃ (>45℃ Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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

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
Off-grid Output					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	12kVA
Peak Power&Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	54.5A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	77.3A	82A	82A	82A	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	12kVA
Max. Output Current	25A	30A	40A	50A	54.5A
Max. Input Power	18kW				
Grid Frequency	50/60±5Hz				
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25℃~+60℃ (>45℃ Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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

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 Compatibility 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	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	25.8A	27.3A	30.3A	33.3A	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	17kVA	18kVA	20kVA	22kVA	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	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25℃~+60℃ (>45℃ Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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				

*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 Pan



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	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	25.8A	27.3A	30.3A	33.3A	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	17kVA	18kVA	20kVA	22kVA	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	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25°C~-+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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

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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%**



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



**150%-200% PV Input Power,
3-4 MPPTs, PV Input Current 40A,
Higher Compatibility with PV Panel**



**275%-626% Grid Input Power,
200A 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 200A**



**Battery Current 140A,
High Adapability with
Battery**



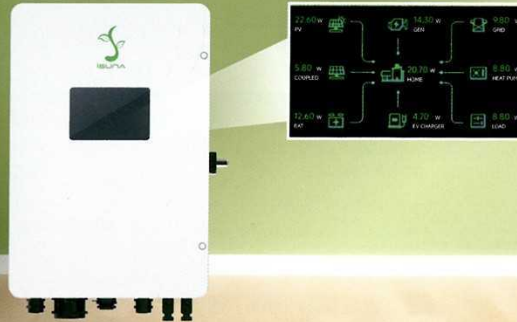
**6 Units in Parallel
(Off-grid Mode)**

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	46.7kVA	55kVA
Rated Voltage	3/N/PE, 220/380V; 230/400V; 240/415V						
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	67.8A	79.8A
Peak Power & Duration	150%(10s)						
Generator Input Current	200A						
THDu	<3%						
On-grid Parameter							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Grid Voltage	3/N/PE, 220/380V; 230/400V; 240/415V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Grid Input Current	200A						
PV Input							
Max. DC Input Power	44000Wp	50000Wp	60000Wp	60000Wp	75000Wp	75000Wp	75000Wp
Max.Input Voltage	1000V						
Rated Input Voltage	600V						
Starting Voltage	180V						
MPPT Voltage Range	150-850V						
Max. Input String Per MPPT	3/6	3/6	3/6	3/6	4/8	4/8	4/8
Max. DC Input Current	3*40A	3*40A	3*40A	3*40A	4*40A	4*40A	4*40A
Short-circuit Current	3*60A	3*60A	3*60A	3*60A	4*60A	4*60A	4*60A
Battery Parameter							
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	70A*2						
Number of Battery Input Ports	2						
Efficiency							
Max. Efficiency	>98%						
European Efficiency/CEC Efficiency	>97.3%						
Max. Battery Charging/Discharging Efficiency	95%						
General Data							
Size(W*H*D)	850mm*550mm*295mm						
Weight	80kg						
Topology	Non-Isolated						
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

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, 3 MPPTs



120-200% Overload



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



6 Units in Parallel
(Off-grid Mode)



<10ms On/Off-grid
Switchover



> 200% Generator Input Power
Executive Generator Port
Smart Monitoring



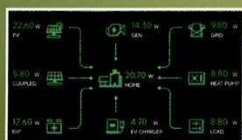
IP65, Smaller Size

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	6000W(10s)	6400W(10s)	7000W(10s)	7200W(10s)
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	6000Wp	8000Wp	9000Wp	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 (optional)			
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%
European Efficiency	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			
Operating Temperature	-25°C~+60°C （>45°C 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			

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

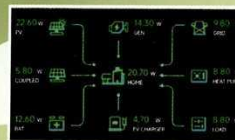
Model Name	Isuna D5K-SL-S	Isuna D6K-SL-S	Isuna D8K-SL-S	Isuna D10K-SL-S	Isuna D12K-SL-S
Off-grid Output					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	12kVA
Peak Power&Duration	20kVA(10s)*				
Max. Output Current	25A	30A	40A	50A	54.5A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Frequency	50/60Hz				
On-grid Parameter					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	12kVA
Max. Input Power	17kVA	18kVA	18kVA	18kVA	18kVA
Max. Output Current	25A	30A	40A	50A	54.5A
Rated Voltage	L/N/PE, 220V/230V/240V				
Grid Voltage range	185-276V (P2N)				
Grid Frequency	50/60±5Hz				
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25℃~+60℃ (>45℃ Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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

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



200-340% 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

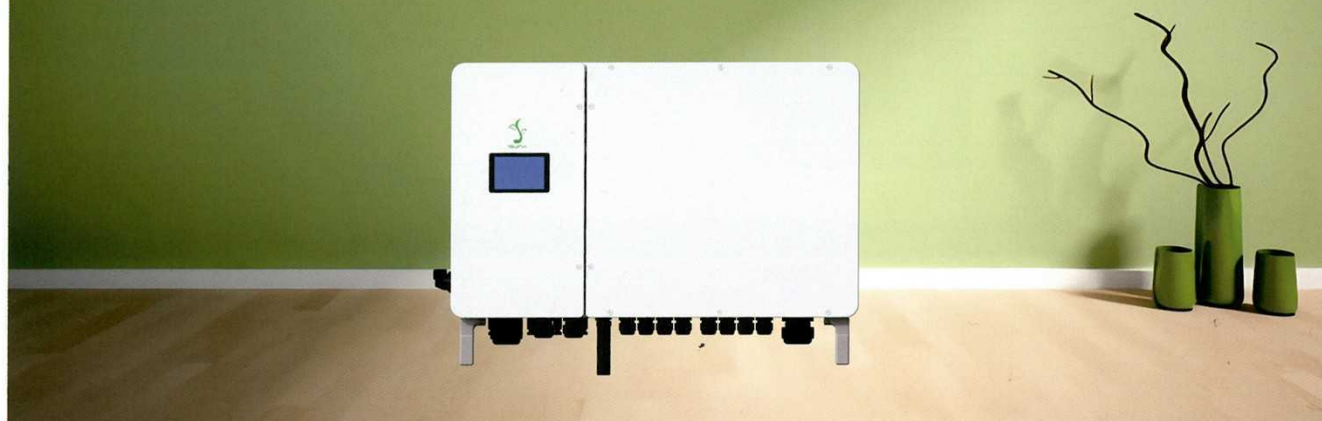
Model Name	Isuna D5K-TL-S	Isuna D6K-TL-S	Isuna D8K-TL-S	Isuna D10K-TL-S	Isuna D12K-TL-S
Off-grid Output					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Frequency	50/60Hz				
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	17kVA	18kVA	20kVA	22kVA	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	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
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(optional)				
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				
Operating Temperature	-25℃~+60℃ (>45℃ Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
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				

*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%



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



150%-200% PV Input Power,
3-4 MPPTs, PV Input Current 40A,
Higher Compatibility with PV Panel



275%-626% Grid Input Power,
200A 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 200A



Battery Current 140A,
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	46.7kVA	55kVA
Rated Voltage	3/N/PE, 220/380V; 230/400V; 240/415V						
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	67.8A	79.8A
Peak Power & Duration	150%(10s)						
Generator Input Current	200A						
THDu	<3%						
On-grid Parameter							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Grid Voltage	3/N/PE, 220/380V; 230/400V; 240/415V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
PV Input							
Max. DC Input Power	44000Wp	50000Wp	60000Wp	60000Wp	75000Wp	75000Wp	75000Wp
Max.Input Voltage	1000V						
Rated Input Voltage	600V						
Starting Voltage	180V						
MPPT Voltage Range	150-850V						
Max. Input String Per MPPT	3/6	3/6	3/6	3/6	4/8	4/8	4/8
Max. DC Input Current	3*40A	3*40A	3*40A	3*40A	4*40A	4*40A	4*40A
Short-circuit Current	3*60A	3*60A	3*60A	3*60A	4*60A	4*60A	4*60A
Battery Parameter							
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	70A*2						
Number of Battery Input Ports	2						
Efficiency							
Max. Efficiency	>98%						
European Efficiency/CEC Efficiency	>97.3%						
Max. Battery Charging/Discharging Efficiency	95%						
General Data							
Size(W*H*D)	850mm*550mm*295mm						
Weight	80kg						
Topology	Non-Isolated						
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 | Split Phase | High Voltage

Hybrid Inverter

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



Product Features



SiC Technology,
Max. 98% Efficiency



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



160% -300% Overload



200% Grid Input Power,
Max.48kW



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



Battery Current 100A,
High Compatibility to Battery



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



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



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

Model Name	Isuna U5K-PH	Isuna U6K-PH	Isuna U8K-PH	Isuna U10K-PH	Isuna U12K-PH	Isuna U15K-PH	Isuna U20K-PH
Off-grid Output							
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
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						
On-grid Parameter							
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						
PV Input							
Max. PV Input Power	10kWp	12kWp	16kWp	20kWp	24kWp	24kWp/30kWp	24kWp/30kWp
Starting Voltage	95V						
MPPT Voltage Range	80-500V						
Numbers of MPPT	4						
Numbers of String Per MPPT	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	2/2/1/1	2/2/2/2
Max. MPPT Input Current	18A	18A	18A	18A	18A	36/36/18/18A	36A
MPPT Short-circuit Current	22A	22A	22A	22A	22A	44/44/22/22A	44A
Battery Parameter							
Battery Type	Lithium-ion/Lead-acid/Sodium-ion(optional)						
Battery Voltage Range	80-480V						
Battery Charging/Discharging Current	50A*2						
Efficiency							
Max. Efficiency	97.6%						
CEC Efficiency	97.2%						
PV Charge to Battery	97.7%						
Max. Battery Charging/Discharging Efficiency	96.6%						
General Data							
Size(W*H*D)	31.5*18.5*7.1 in/800*470*180 mm						
Weight	105 lb/48 kg						
Protection Grade	IP66/NEMA 4X						
Cooling Method	Intelligent Air Cooling						
Communication Method	LED/WIFI/LAN/4G/Bluetooth/RS485						
ATS Function	Built-in						
Operating Temperature	-13~140°F/-25~60°C(>104°F/40°C Derating)						
Operating Altitude	4000m (>3000m Derating)						
Protection	DC Switch; Ground Fault Detection; PV Quick Shutdown Control; PV Arc Fault Detection; PV Input Lightning Protection; PV Reverse Polarity Protection; Battery Reverse Protection; Surge Protection: DC Type II /AC Type II; AC Grid Input Circuit Breaker						
Certification							
UL	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL1699B						
FCC	FCC 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

Off-grid | Split Phase | High Voltage

Hybrid Inverter

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



Product Features



SiC Technology,
Max. 98% Efficiency



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



160% -300% Overload



200% Grid Input Power,
Max.48kW



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



Battery Current 100A,
High Compatibility to Battery



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



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



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

Model Name	Isuna U5K-POH	Isuna U6K-POH	Isuna U8K-POH	Isuna U10K-POH	Isuna U12K-POH	Isuna U15K-POH	Isuna U20K-POH
Off-grid Output							
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Peak Power&Duration	110% for long term, 160% (10s)*						
Rated Frequency	50Hz/60Hz						
GEN Input power	48kW						
GEN Input current	200A						
Off-grid Switching Time	<8ms						
On-grid Parameter							
Rated Grid Voltage	120V/240V/208V （240V/208V Single phase support）						
Input Power from Grid	48kW						
Input Current from Grid	200A						
PV Input							
Max. PV Input Power	10000Wp	12000Wp	16000Wp	20000Wp	24000Wp	30000Wp	30000Wp
Starting Voltage	95V						
MPPT Voltage Range	80-500V						
Numbers of MPPT	4						
Numbers of String Per MPPT	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	2/2/1/1	2/2/2/2
Max. MPPT Input Current	18A	18A	18A	18A	18A	36/36/18/18A	36A
MPPT Short-circuit Current	22A	22A	22A	22A	22A	44/44/22/22A	44A
Battery Parameter							
Battery Type	Lithium-ion/Lead-acid/Sodium-ion(optional)						
Battery Voltage Range	80-480V						
Battery Charging/Discharging Current	50A*2						
Efficiency							
Max. Efficiency	97.6%						
CEC Efficiency	97.2%						
PV Charge to Battery	97.7%						
Max. Battery Charging/Discharging Efficiency	96.6%						
General Data							
Size(W*H*D)	31.5*18.5*7.1 in/800*470*180 mm						
Weight	105 lb/48 kg						
Protection Grade	IP66/NEMA 4X						
Cooling Method	Intelligent Air Cooling						
Communication Method	LED/WIFI/LAN/4G/Bluetooth/RS485						
No-load Loss	<90W						
Operating Temperature	-13~140°F/-25~60℃(>104°F/40℃ Derating)						
Operating Altitude	4000m (>3000m Derating)						
Protection	DC Switch; Ground Fault Detection; PV Quick Shutdown Control; PV Arc Fault Detection; PV Input Lightning Protection; PV Reverse Polarity Protection; Battery Reverse Protection; Surge Protection: DC Type II /AC Type II; AC Grid Input Circuit Breaker						
Certification							
UL	UL 1741:2023, CSA C22.2 No.107.1:2021						
FCC	FCC Part 15: 2021						

*Overload output must include sufficient PV output



Shenzhen Sinexcel Isuna Energy Technology Co.,Ltd

Email: hes@sinexcel.cn

Tel: 0755-8651-1588

Website: <https://www.sinexcel-isuna.com>

Address: 1002 Songbai Rd,Nanshan Shenzhen China 518000



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