

Single Phase Hybrid Inverter

HI-3K-SL/HI-3.6K-SL/HI-4K-SL/HI-5K-SL/HI-6K-SL



Stable

Fanless design to prolong lifespan;
Ip65 alloy enclosure; Full auto-protection.

Flexible

Up to 6 unites parallel;
Single phase and unbalanced three phase
paralleling;No limits on cable length connecting to
battery or AC.

Easy use

Light, quick and easy installation;
Free & handy monitoring on mobile/PC;
Multi phases output on different hybrid models;
Multiple ports: 4*RS485, 2*CAN, USB, Dry-contact;
USB upgrade.

Smart UPS

Smart LCD display;
Plug & Play, seamless switching under 10ms; Sufi
cient backup power for emergency use.

Intelligent working modes

Self consumption mode for high tariff areas;Charge
priority mode for areas where grid
power is unstable; Peak-load shifting mode for
areas where tariff varies by time.

Easy to use with battery

Higher charging and discharging current;Wide
range of compatible battery brands;Wake up
lithium battery from sleep mode;Essential info
uploaded to INHE server for quick ESS diagnosis.

Technical Data	HI-3K-SL	HI-3.6K-SL	HI-4K-SL	HI-5K-SL	HI-6K-SL
PV String Input Data					
Max. DC input power	4500W	5400W	6000W	7500W	9000W
Max. DC input voltage	550V				
Operation voltage range	80V-550V				
MPPT working voltage range	90V-550V				
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	15A/15A				
Start-up voltage/Min.operating voltage	100V/80V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	3000W	3600W	4000W	5000W	6000W
Max. output apparent power	3000VA	3600VA	4000VA	5000VA	6000VA
Nominal output voltage	230V/180V-280V				
Nominal output frequency	50Hz,60Hz/±5Hz				
Rated output current	13A	15.6A	18A	22A	26A
Max. output current	14A	17A	19A	24A	29A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	L+N+PE				
Max.apparent power from utility grid	6000VA	7200VA	8000VA	10000VA	12000VA
Max.AC current from utility grid	28A	32A	38A	48A	58A
Back-up Output Data (UPS)					
Peak output apparent power	4000VA,10s	4600VA,10s	5000VA,10s	6000VA,10s	7000VA,10s
Nominal output apparent power	3000VA	3600VA	4000VA	5000VA	6000VA
Nominal output voltage	208V,220V,230V,240V				
Nominal output frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery Input Data					
Battery type	Li-Ion /Lead-acid				
Nominal battery voltage	48V				
Battery voltage range	40V-60V				
Max. charging voltage	58V(Configurable)				
Max. charging/discharging current	70A	80A	100A	100A	100A
Battery capacity(AH)	50-2000				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
Charging strategy for Lead-acid Battery	Three-stage				
Efficiency					
Max. efficiency	98%	98%	98%	98%	98%
Europe efficiency	97.50%	97.50%	97.50%	97.50%	97.50%
Max. battery to load efficiency	94%	94%	94%	94%	94%
Protection					
Anti islanding protection	Yes				
Insulation impedance protection	Yes				
RCD detection	Yes				
PV reverse polarity protection	Yes				
Output over voltage protection	Yes				
Output over current protection	Yes				
General Data					
Dimensions(W/L/H)in mm	375/365/240				
Weight	20kg				
Noise	<25dB				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Natural				
IP Class	IP 65				
Maximum altitude	4000m				
Self-Consumption night	<3w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/4G/USB/CAN/RS485				
Warranty	5years (standard)				
Standards	CE,G83/G59,VDE0126-1-1,AS4777,AS/NZS3100,CEI 0-21,VDE-AR-N4105				

Single Phase Grid-connected PV Inverter

SI-1K-S2/SI-1.5K-S2/SI-2K-S2/SI-2.5K-S2/SI-3K-S2/SI-3.3K-S2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.

Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.

Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.

Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-1K-S2	SI-1.5K-S2	SI-2K-S2	SI-2.5K-S2	SI-3K-S2	SI-3.5K-S2
Input Data						
Max. DC input power	1300W	1950W	2600W	3250W	3900W	3900W
Max. DC input voltage	500V					
Operation voltage range	60V-500V					
Number of independent MPPT / strings per MPPT	1/1					
MPPT max. current	14A					
Max.Short Circuit Current per MPPT	18A/18A					
AC Output Data						
Rated output power	1kW	1.5kW	2kW	2.5kW	3kW	3.3kW
Max. output power	1.1kW	1.65kW	2.2kW	2.75kW	3.3kW	3.3kW
Rated output voltage	220V,230V/±20%					
Rated output frequency	50Hz,60Hz/±5Hz					
Rated output current	4.4A	6.6A	8.7A	10.9A	13.1A	14.5A
Max. output current	5A	7.5A	10A	12A	14.5A	14.5A
Power factor	-0.8~+0.8(adjustable)					
THDi	<3%(Nominal Output)					
Grid system pattern	L+N+PE					
Efficiency						
Max. efficiency	97.60%					
Europe efficiency	96.80%					
Protection						
Input DC switch	Yes					
Input over current protection	Yes					
DC reverse polarity protection	Yes					
Output over voltage protection	Yes					
Output over current protection	Yes					
Anti islanding protection	Yes					
Insulation impedance protection	Yes					
RCD detection	Yes					
General Data						
Dimensions(W/L/H)in mm	265/310/140					
Weight	7.2kg					
Noise	<25dB					
Operation temperature range	-25°C~+60°C					
Heat dissipation mode	Natural					
IP Class	IP65					
Maximum altitude	4000m					
Self-Consumption night	<1w					
Topology	Transformerless					
Features						
LCD display	Yes					
Communication interface	WIFI/4G/GPRS/RS485(optional)					
Warranty	5 years (standard)					
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777					

Single Phase Grid-connected PV Inverter

SI-3.6K-S2/SI-4K-S2/SI-4.6K-S2/SI-5K-S2/SI-6K-S2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

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Safe

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Easy use

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Technical Data	SI-3.6K-S2	SI-4K-S2	SI-4.6K-S2	SI-5K-S2	SI-6K-S2
Input Data					
Max. DC input power	4700W	5500W	6000W	6500W	7800W
Max. DC input voltage	550V				
Operation voltage range	80V-540V				
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	14A/14A				
Max.Short Circuit Current per MPPT	18A/18A				
AC Output Data					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. output power	4kW	4.4kW	5kW	5.5kW	6.6kW
Rated output voltage	220V,230V/±20%				
Rated output frequency	50Hz,60Hz/±5Hz				
Rated output current	15.7A	18A	20A	21.8A	26.1A
Max. output current	17.3A	17.3A	22A	24A	29A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	L+N+PE				
Efficiency					
Max. efficiency	98.20%				
Europe efficiency	97.50%				
Protection					
Input DC switch	Yes				
Input over current protection	Yes				
DC reverse polarity protection	Yes				
Output over voltage protection	Yes				
Output over current protection	Yes				
Anti islanding protection	Yes				
Insulation impedance protection	Yes				
RCD detection	Yes				
General Data					
Dimensions(W/L/H)in mm	330/312/188				
Weight	11.4kg				
Noise	<25dB				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Natural				
IP Class	IP65				
Maximum altitude	4000m				
Self-Consumption night	<1w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WIFI/4G/GPRS/RS485(optional)				
Warranty	5 years (standard)				
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777				

Single Phase Grid-connected PV Inverter

SI-7K-S2/SI-8K-S2/SI-9K-S2/SI-10K-S2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.

Safe

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Reliable

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Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-7K-S2	SI-8K-S2	SI-9K-S2	SI-10K-S2
Input Data				
Max. DC input power	9100W	10400W	11700W	13000W
Max. DC input voltage	550V			
Operation voltage range	80V-540V			
Number of independent MPPT / strings per MPPT	3/1+1+1			
MPPT max. current	14A/14A/14A			
Max.Short Circuit Current per MPPT	18A/18A/18A			
AC Output Data				
Rated output power	7kW	8kW	9kW	10kW
Max. output power	7.7kW	8.8kW	9.9kW	10kW
Rated output voltage	220V,230V/±20%			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	30.5A	35A	39.2A	43.5A
Max. output current	34A	38.5A	43A	44A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	L+N+PE			
Efficiency				
Max. efficiency	98.40%			
Europe efficiency	97.50%			
Protection				
Input DC switch	Yes			
Input over current protection	Yes			
DC reverse polarity protection	Yes			
Output over voltage protection	Yes			
Output over current protection	Yes			
Anti islanding protection	Yes			
Insulation impedance protection	Yes			
RCD detection	Yes			
General Data				
Dimensions(W/L/H)in mm	358/400/180			
Weight	16kg			
Noise	<25dB		<45dB	
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Natural	Smart cooling		
IP Class	IP65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	Yes			
Communication interface	WIFI/4G/GPRS/RS485(optional)			
Warranty	5 years (standard)			
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI-4K-T2/SI-5K-T2/SI-6K-T2/SI-8K-T2/SI-10K-T2/SI-12K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.

Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.

Reliable

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Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-4K-T2	SI-5K-T2	SI-6K-T2	SI-8K-T2	SI-10K-T2	SI-12K-T2
Input Data						
Max. DC input power	5200W	6500W	7800W	10400W	13000W	15600W
Max. DC input voltage	1100V					
Operation voltage range	200V-1000V					
Number of independent MPPT / strings per MPPT	2/1					
MPPT max. current	14A/14A					
Max.Short Circuit Current per MPPT	18A/18A					
AC Output Data						
Rated output power	4000W	5000W	6000W	8000W	10000W	12000W
Max. output power	4400W	5500W	6600W	8800W	11000W	13200W
Rated output voltage	380V,400V/±20%					
Rated output frequency	50Hz,60Hz/±5Hz					
Rated output current	5.7A	7.2A	8.7A	11.6A	14.5A	17.5A
Max. output current	6.5A	8A	10A	13A	16A	19A
Power factor	-0.8~+0.8(adjustable)					
THDi	<3%(Nominal Output)					
Grid system pattern	3W+N+PE					
Efficiency						
Max. efficiency	98.20%					
Europe efficiency	98.00%					
Protection						
Input DC switch	Yes					
Input over current protection	Yes					
DC reverse polarity protection	Yes					
Output over voltage protection	Yes					
Output over current protection	Yes					
Anti islanding protection	Yes					
Insulation impedance protection	Yes					
RCD detection	Yes					
General Data						
Dimensions(W/L/H)in mm	403/360/192					
Weight	15kg					
Noise	<30dB					
Operation temperature range	-25°C~+60°C					
Heat dissipation mode	Natural					
IP Class	IP 65					
Maximum altitude	4000m					
Self-Consumption night	<1w					
Topology	Transformerless					
Features						
LCD display	Yes					
Communication interface	WIFI/4G/GPRS/RS485(optional)					
Warranty	5 years (standard)					
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777					

Three Phase Grid-connected PV Inverter

SI-13K-T2/SI-15K-T2/SI-17K-T2/SI-20K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.

Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.

Reliable

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Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-13K-T2	SI-15K-T2	SI-17K-T2	SI-20K-T2
Input Data				
Max. DC input power	17000W	19500W	22000W	26000W
Max. DC input voltage	1100V			
Operation voltage range	200V-1000V			
Number of independent MPPT / strings per MPPT	2/1+2	2/1+2	2/1+2	2/2+2
MPPT max. current	14A/28A	14A/28A	14A/28A	28A/28A
Max.Short Circuit Current per MPPT	18A/36A			36A/36A
AC Output Data				
Rated output power	13000W	15000W	17000W	20000W
Max. output power	14300W	16500W	18700W	22000W
Rated output voltage	380V,400V/±20%			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	19A	22A	25A	29A
Max. output current	21A	24A	27A	32A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	3W+N+PE			
Efficiency				
Max. efficiency	98.50%			
Europe efficiency	98.20%			
Protection				
Input DC switch	Yes			
Input over current protection	Yes			
DC reverse polarity protection	Yes			
Output over voltage protection	Yes			
Output over current protection	Yes			
Anti islanding protection	Yes			
Insulation impedance protection	Yes			
RCD detection	Yes			
General Data				
Dimensions(W/L/H)in mm	403/360/238			
Weight	18.5kg			
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	Yes			
Communication interface	WIFI/4G/GPRS/RS485(optional)			
Warranty	5 years (standard)			
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI-22K-T2/SI-25K-T2/SI-27K-T2/SI-30K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.

Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.

Reliable

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Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-22K-T2	SI-25K-T2	SI-27K-T2	SI-30K-T2
Input Data				
Max. DC input power	28600W	32500W	35000W	39000W
Max. DC input voltage	1100V			
Operation voltage range	200V-1000V			
Number of independent MPPT / strings per MPPT	2/2+2	2/2+2	2/2+3	2/2+3
MPPT max. current	28A/28A	28A/28A	28A/42A	28A/42A
Max.Short Circuit Current per MPPT	36A/36A			36A/54A
AC Output Data				
Rated output power	22000W	25000W	27000W	30000W
Max. output power	24000W	27500W	29700W	33000W
Rated output voltage	380V,400V/±20%			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	32A	36A	40A	43.5A
Max. output current	35A	40A	43A	48A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	3W+N+PE			
Efficiency				
Max. efficiency	98.50%			
Europe efficiency	98.20%			
Protection				
Input DC switch	Yes			
Input over current protection	Yes			
DC reverse polarity protection	Yes			
Output over voltage protection	Yes			
Output over current protection	Yes			
Anti islanding protection	Yes			
Insulation impedance protection	Yes			
RCD detection	Yes			
General Data				
Dimensions(W/L/H)in mm	403/360/238			
Weight	20.5kg	22kg		
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	Yes			
Communication interface	WIFI/4G/GPRS/RS485(optional)			
Warranty	5 years (standard)			
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI-33K-T2/SI-36K-T2/SI-40K-T2/SI-45K-T2/SI-50K-T2/SI-60K-T2



Stable

The chassis adopts high protection design, prolong life time, performance well in extreme environment.

Flexible

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Smart

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Easy use

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Technical Data	SI-33K-T2	SI-36K-T2	SI-40K-T2	SI-45K-T2	SI-50K-T2	SI-60K-T2
Input Data						
Max. DC input power	43000W	47000W	52000W	60000W	65000W	78000W
Max. DC input voltage	1100V					
Operation voltage range	200V-1000V					
Number of independent MPPT / strings per MPPT	2/3	2/3	2/4	3/3	3/3	3/4
MPPT max. current	45A*2	45A*2	52A*2	45A*3	45A*3	52A*3
Max.Short Circuit Current per MPPT	54A*2	54A*2	72A*2	54A*3	54A*3	72A*3
AC Output Data						
Rated output power	33000W	36000W	40000W	45000W	50000W	60000W
Max. output power	36000W	40000W	44000W	50000W	55000W	66000W
Rated output voltage	380V,400V/±20%					
Rated output frequency	50Hz,60Hz/±5Hz					
Rated output current	48A	52A	58A	65A	72A	87A
Max. output current	52A	58A	64A	72A	80A	95A
Power factor	-0.8~+0.8(adjustable)					
THDi	<3%(Nominal Output)					
Grid system pattern	3W+N+PE					
Efficiency						
Max. efficiency	98.50%					
Europe efficiency	98.20%					
Protection						
Input DC switch	Yes					
Input over current protection	Yes					
DC reverse polarity protection	Yes					
Output over voltage protection	Yes					
Output over current protection	Yes					
Anti islanding protection	Yes					
Insulation impedance protection	Yes					
RCD detection	Yes					
General Data						
Dimensions(W/L/H)in mm	433/498/287					
Weight	38kg			40kg		
Operation temperature range	-25°C~+60°C					
Heat dissipation mode	Smart cooling					
IP Class	IP 65					
Maximum altitude	4000m					
Self-Consumption night	<1w					
Topology	Transformerless					
Features						
LCD display	Yes					
Communication interface	WIFI/4G/GPRS/RS485(optional)					
Warranty	5 years (standard)					
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777					

Three Phase Grid-connected PV Inverter

SI 70K/SI80K



Stable

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Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.

Smart

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Safe

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Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.

Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI 70K	SI 80K
Input Data		
Max. DC input power	85000W	100000W
Max. DC input voltage	1100V	
Operation voltage range	200V-1000V	
Number of independent MPPT / strings per MPPT	4/3	4/4
MPPT max. current	39A*4	52A*4
Max.Short Circuit Current per MPPT	48A*4	65A*4
AC Output Data		
Rated output power	70000W	80000W
Max. output power	77000W	88000W
Rated output voltage	380V,400V/±20%	
Rated output frequency	50Hz,60Hz/±5Hz	
Rated output current	101A	115A
Max. output current	111A	128A
Power factor	'-0.8~+0.8(adjustable)	
THDi	<3%(Nominal Output)	
Grid system pattern	3W+N+PE	
Efficiency		
Max. efficiency	99.00%	
Europe efficiency	98.50%	
Protection		
Input DC switch	Yes	
Input over current protection	Yes	
DC reverse polarity protection	Yes	
Output over voltage protection	Yes	
Output over current protection	Yes	
Anti islanding protection	Yes	
Insulation impedance protection	Yes	
RCD detection	Yes	
General Data		
Dimensions(W/L/H)in mm	690/640/296	
Weight	55kg	68kg
Operation temperature range	' -25°C~+60°C	
Heat dissipation mode	Smart cooling	
IP Class	IP 65	
Maximum altitude	4000m	
Self-Consumption night	<1w	
Topology	Transformerless	
Features		
LCD display	Yes	
Communication interface	WIFI/4G/GPRS/RS485(optional)	
Warranty	5 years (standard)	
Standards	IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777	