



SOLAR INVERTER



Single-phase Hybrid Inverter

Introduction:

This single phase hybrid solar Inverter series can convert solar energy to AC energy and store energy into battery.



Model	SI1P3KLE	SI1P3.6KLE	SI1P4KLE	SI1P4.6KLE	SI1P5KLE	SI1P6KLE
Input(PV)						
Max.Input Power(KW)	4.6KW		6KW		7KW	
Max. DC Voltage(V)	550V					
MPPT Voltage Range(V)	125~550V					
Max.Input Current Of Single MPPT(A)	14A					
MPPT Tracker/Strings	2/1					
AC output						
Rated Output Power(KVA)	3KVA	3.68KVA	4KVA	4.6KVA	5KVA	6KVA
Max Output Current(A)	13A	16A	17.4A	20A	21A	26A
Grid Voltage/Range(V)	230/176~270V					
Frequency (HZ)	50 /60					
PF	0.8lagging-0.8leading					
THDI	<3%					
AC Output Topology	L+N+PE					
Battery						
Battery Voltage Range(V)	40~58V					
Max. Charging Voltage(V)	58V					
Max. Charging /Discharge Current(A)	95A/62.2A	95A/75A	95A/83.3A	95A/95.8A	95A/104.2A	95A/110A
Battery Type	Lithium /Lead-acid					
Communication Interface	CAN/RS485					
EPS output						
Rated Power (KVA)	3KVA	3.68KVA	4KVA	4.6KVA	5KVA	6KVA
Rated Output Voltage(V)	230Vac					
Rated Output Current(A)	13A	16A	17.4A	20A	21.7A	26A
Rated Frequency (HZ)	50/60HZ					
Automatic Switching Time (MS)	<20MS					
THDU	<2%					
Overload Capacity	110%,30S/120%,10S/150%,0.02S					
General data						
Battery Charge/Discharge Efficiency	95%					
DC Max. Efficiency	97.60%					
Europe Efficiency	97.70%					
MPPT Efficiency	99.90%					
Ingress Protection	IP65					
Noise Emission (DB)	<35DB					
Operation Temperature	-25~+60℃					
Cooling	Natural					
Relative Humidity	0~95%(non-condensing)					
Altitude	2,000m(>2,000 Derating)					
Dimensions WDH(MM)	550/200/515MM					
Weight (KG)	25KG					
Self-Consumption(W)	<3W					
Display and communication						
Display	LCD					
Interface:RS485/WiFi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes					
Safety Standard	IEC/EN62109-1/-21EC/EN62477-1					
EMC	IEC/EN 61000-6-1IEC/EN 61000-6-3					
On-Grid	South Africa NRS097-2-1:2017,UK G98,G99					

Three-phase Hybrid Inverter

Introduction:
This three phase high voltage inverters series is a high quality smart hybrid solar inverter which can convert solar energy to AC energy and store energy into battery.



- 
Villa
- 
Household
- 
Farm
- 
Base Station

Model	SI3P8KHE	SI3P10KHE	SI3P12KHE	SI3P15KHE
Input(PV)				
Max.Input Power(KW)	12KW	15KW	18KW	22.5KW
Max. DC Voltage(V)	1000V			
MPPT Voltage Range(V)	180-850V			
Max.Input Current Of Single MPPT(A)	13A			
MPPT Tracker/Strings	2/1		2/2	
AC output				
Rated Output Power(KVA)	8KVA	10KVA	12KVA	15KVA
Max. Output Current(A)	12.7A	15.9A	19.1A	23.8A
Grid Voltage/Range(V)	400V/360V~440V			
Frequency (HZ)	50/60HZ			
PF	0.8lagging-0.8leading			
THDI	<3%			
Type Of Grid Connection	3W+N+PE			
Battery				
Battery Voltage Range(V)	125V~600V			
Max. Charging Voltage(V)	600V			
Full Battery Voltage(V)	210V	270V	300V	375V
Rated Charge/Discharge Current(A)	50A			
Battery Type	Lithium /Lead-acid			
Communication Interface	CAN/RS485			
EPS output				
Rated power (KVA)	8.8KVA	11KVA	13.2KVA	15KVA
Rated Output Voltage(V)	400V			
Rated Output Current(A)	12.7A	15.9A	19.1A	23.8A
Rated Frequency (HZ)	50/60HZ			
Automatic Switching Time (MS)	<20MS			
THDU	<2%			
Overload Capacity	110%,30S/120%,10S/150%,0.02S			
General data				
Battery Charge/Discharge	97.50%	97.50%	97.60%	97.80%
DC Max. Efficiency	97.90%	98.20%	98.20%	98.50%
Europe Efficiency	97.20%	97.50%	97.50%	97.60%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%
Protection Class	IP65			
Noise Emission (Typical)	≤ 25DB			
Operation Temperature	-35~+60°C			
Relative Humidity	0~100%(non-condensing)			
Altitude	4000m(> 2,000m Derating)			
Dimensions W*D*H(MM)	530*220*560MM			
Weight (KG)	30KG	30KG	31KG	32KG
Isolation Transfomer	No			
Self-Consumption(W)	<3W			
Display and Communication				
Display	LCD/APP			
Interface:RS485/WiFi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes			
Safety Standard	IEC/EN62109-1/-2, IEC/EN62477-1			
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3			
On-Grid	Europe: EN50549-1, Germany:VDE4105/0124, UK:G99,South Africa:NRS097-2-1:2017			

American Split Phase Hybrid Inverter(Battery Voltage:48V)

Introduction:
This split-phase 48V hybrid inverter is for North American market which is a high quality smart hybrid solar inverter.

- 

Villa
- 

Household
- 

Farm
- 

Base Station



Model	SIXP5KLE	SIXP6KLE	SIXP8KLE	SIXP10KLE
Input(PV)				
Max. Power(KW)	7.5KW	9KW	12KW	13KW
MPPT Voltage Range(V)	120-500V			
Max. DC Voltage(V)	500V			
Max.Input Current Of Single MPPT(A)	12A			
MPPT Tracker/Strings	4/1			
AC output				
Rated Output Power(KVA)	5KVA	6KVA	8KVA	10KVA
Max Output Current(A)	24A	28.8A	38.3A	47.8A
AC Output Voltage(V)	120/240(split phase), 208(2/3 phase), 230(single phase)			
Frequency (HZ)	50/60HZ			
Power Factor	0.8lagging-0.8leading			
THDI	<3%			
AC Output Topology	Split phase, 2/3 phase, single phase			
Battery				
Battery Voltage Range(V)	40V~58V			
Max. Charging Voltage(V)	58V			
Max. Charging /Discharge Current(A)	120A/120A	135A/135A	190A/190A	210A/210A
Battery Type	Lithium /Lead-acid			
Communication	CAN/RS485			
EPS output				
Rated Power (KVA)	5KVA	6KVA	8KVA	10KVA
Rated Output Voltage(V)	120/240(split phase), 208(2/3 phase), 230(single phase)			
Rated Output Current(A)	24A	28.8A	38.3A	47.8A
Rated Frequency (HZ)	50/60HZ			
Automatic Switching Time (MS)	<20MS			
Output THDU	<2%			
Overload Capacity	125%, 60S/150%,1S			
General data				
Max. Efficiency	≥ 98.2%			
North American Efficiency	≥ 97.2%			
Ingress Protection	IP65/NEMA 3R			
Noise Emission (DB)	< 25db	< 29db	< 29db	< 29db
Cooling	Natural			
Operation Temperature	-25~+60℃			
Relative Humidity	2,000m(> 2,000 Derating)			
Weight (KG)	41KG			
Dimensions W*D*H(MM)	430*220*710MM			
Isolation Transfomer	No			
Self-Consumption(W)	<3W			
Display and communication				
Display	LCD, touch screen			
Interface:RS485/WiFi/4G/CAN/DRM	Yes			
Safety Standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-Grid	IEEE 1547,IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS			

American ESS Split Phase Inverter (Battery Voltage>80V)



Introduction:
This split-phase high voltage hybrid inverter is for North American market which is a high quality smart hybrid solar inverter.

- 
Residential electricity
- 
Nomadic farm
- 
Back up power



Model	SIXP6KHE	SIXP8KHE	SIXP10KHE	SIXP12KHE
Input(PV)				
Max.Input Power(KW)	7.8KW	10.4KW	13KW	15.6KW
Max. DC Voltage(V)	500V			
MPPT Voltage Range(V)	120~500V			
Max.Input Current Of Single MPPT(A)	12A			
MPPT Tracker/Strings	4/1			
AC output				
Rated Output Power(KVA)	6KVA	8KVA	10KVA	12KVA
Max Output Current(A)	27.3A	36.4A	45.4A	50A
Grid Voltage/Range(V)	240/211~264V			
Frequency (HZ)	50/60HZ			
PF	0.8lagging-0.8leading			
THDI	<3%			
Type Of Grid Connection	L+N+PE			
EPS output				
Rated Power (KVA)	6KVA	8KVA	10KVA	12KVA
Rated Output Voltage(V)	220-240/110-120			
Rated Frequency (HZ)	50/60HZ			
Automatic Switching Time (MS)	<20MS			
THDU	<2%			
Overload Capacity	110%,30S/120%,10S/150%,0.02S			
Battery				
Battery Voltage Range(V)	85V~400V			
Max. Charging Voltage(V)	400V			
Full Battery Voltage(V)	85V	110V	140V	160V
Rated Charge/Discharge Current(A)	80/80A			
Battery Type	Lithium /Lead-acid			
Communication Interface	CAN/RS485			
General data				
Max. Efficiency	≥ 98.2%			
CEC Efficiency	≥ 97.2%			
Ingress Protection	IP65/NEMA 3R			
Noise Emission (DB)	< 25DB	< 25DB	< 29DB	< 29DB
Operation Temperature	-25~+60°C			
Cooling	Natural			
Relative Humidity	0~95%(non-condensing)			
Altitude	2,000m(> 2,000 Derating)			
Weight (KG)	32KG			
Dimensions W*D*H(MM)	530*200*660MM			
Display and communication				
Display	LCD			
Interface:RS485/WiFi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes			
standby Power Consumption At Night (W)	<2.5W(With the battery<5W)			
Isolation Transfomer	Yes			
Safety Standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-Grid	IEEE 1547,IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III			