

VEICHI

SI Series Off Grid/Hybrid Inverter





Pure Sine Wave Output



Programmable Supply Priority



Work with or without Battery



Convenient Design & Installation

Model Description

SIS 1 - 5K - 48 - S

Product Series

SIS: Single phase output
SIT: Three phase output

Capacity Rating

5K : 5kw(or 5kWh for battery)
1.5K : 1.5kW
3K : 3kW
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Product Type

S : Off-Grid
H : Hybrid

Voltage for Battery

24 : 24V DC
48 : 48V DC
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MODEL	SISV-4.2K-H(TWIN)	SISV-6.2K-H(TWIN)	SISV-8.2K-H(TWIN)	SISV-10.2K-H(TWIN)
Rated Output Power	4200W	6200W	8200W	10200W
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360VDC /500 VDC	360VDC /500 VDC	360VDC /500 VDC	360VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	60VDC / 90VDC	60VDC / 90VDC	90VDC / 120VDC	90VDC / 120VDC
MPPT Voltage Range	60VDC ~ 450VDC	60VDC ~ 450VDC	90VDC ~ 450VDC	90VDC ~ 450VDC
Number of MPPT Trackers / Maximum Input Current	1 / 18A	1 / 22A	2 / 18A	2 / 18A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC	220/230/240 VAC	220/230/240 VAC	220/230/240 VAC
Output Voltage Range	195.5~253 VAC	195.5~253 VAC	190~253 VAC	190~253 VAC
Nominal Output Current	18.2A	27.0A	35.6A	44.3A
Power Factor	>0.99	>0.99	>0.99	>0.99
Feed-in Grid Frequency Range	49~51 ± 1 Hz	49~51 ± 1 Hz	49~51 ± 1 Hz	49~51 ± 1 Hz
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	98%	98%	98%	98%
TWO LOAD OUTPUT POWER				
Full Load				
Maximum Main Load	4200W	6200W	8200W	10200W
Maximum Second Load (battery mode)	1400W	2067W	2733W	3400W
Main Load Cut Off Voltage	26VDC	52VDC	52VDC	52VDC
Main Load Return Voltage	27VDC	54VDC	54VDC	54VDC
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120~140VAC / 180VAC	120~140VAC / 180VAC	120~140VAC / 180VAC	120~140VAC / 180VAC
Acceptable Input Voltage Range	90~280 VAC or 170~280 VAC	90~280 VAC or 170~280 VAC	90~280 VAC or 170~280 VAC	90~280 VAC or 170~280 VAC
Frequency Range	49~51 ± 1 Hz	49~51 ± 1 Hz	49~51 ± 1 Hz	49~51 ± 1 Hz
Maximum AC Input Current	30A	40A	40A	50A
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360VDC /500 VDC	360VDC /500 VDC	360VDC /500 VDC	360VDC /500 VDC
MPPT Voltage Range	60VDC ~ 450VDC	60VDC ~ 450VDC	90VDC ~ 450VDC	90VDC ~ 450VDC
Maximum Input Current	1 / 18A	1 / 22A	2 / 18A	2 / 18A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240VAC	220/230/240VAC	220/230/240VAC	220/230/240VAC
Output Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	94%	94%	94%	94%
BATTERY & CHARGER				
Nominal DC Voltage	24VDC	48VDC	48VDC	48VDC
Maximum Solar Charging Current	140A	120A	160A	160A
Maximum AC Charging Current	100A	100A	140A	140A
Maximum Solar + AC Charging Current	140A	120A	160A	160A
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360VDC /500 VDC	360VDC /500 VDC	360/500VDC	360/500VDC
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	90VDC/120VDC	90VDC/120VDC	90VDC/120VDC
MPPT Voltage Range	60VDC ~ 450VDC	60VDC ~ 450VDC	90~450VDC	90~450VDC
Maximum Input Current	1 / 18A	1 / 22A	2/18A	2/18A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC	220/230/240 VAC	220/230/240VAC	220/230/240VAC
Output Voltage Range	195.5~253 VAC	195.5~253 VAC	190~253VAC	190~253VAC
Nominal Output Current	18.2A	27.0A	35.6A	44.3A
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120~140VAC / 180VAC	120~140VAC / 180VAC	120~140VAC/180VAC	120~140VAC/180VAC
Acceptable Input Voltage Range	90~280 VAC or 170~280 VAC	90~280 VAC or 170~280 VAC	90~280VAC or 170~180VAC	90~280VAC or 170~180VAC
Maximum AC Input Current	30A	40A	40A	50A
Maximum AC Charging Current	100A	100A	140A	140A
PROTECTION				
Over temperature	Integrated	Integrated	Integrated	Integrated
Battery low	Integrated	Integrated	Integrated	Integrated
Battery high	Integrated	Integrated	Integrated	Integrated
Output short circuit	Integrated	Integrated	Integrated	Integrated
Output voltage too high	Integrated	Integrated	Integrated	Integrated
Output voltage too low	Integrated	Integrated	Integrated	Integrated
Bus voltage high	Integrated	Integrated	Integrated	Integrated
Bus voltage low	Integrated	Integrated	Integrated	Integrated
PV voltage is over limitation	Integrated	Integrated	Integrated	Integrated
GENERAL				
PHYSICAL				
Dimension, D×W×H (mm)	110×350×420	110×350×420	130×390×500	130×390×500
Carton Dimension, D×W×H (mm)	180×415×500	180×415×500	205×463×588	205×463×588
Net Weight (kgs)	8	8.9	14.2	14.7
Gross Weight (kgs)	9	10	15.7	16.2
INTERFACE				
Communication Interface	RS232/RS485/GPRS/WIFI/LITHIUM BATTERY			
ENVIRONMENT				
Humidity	5% to 90% Relative Humidity (Non-condensing)			
Operating Temperature	-10 C to 50 C	-10 C to 50 C	-10 C to 50 C	-10 C to 50 C