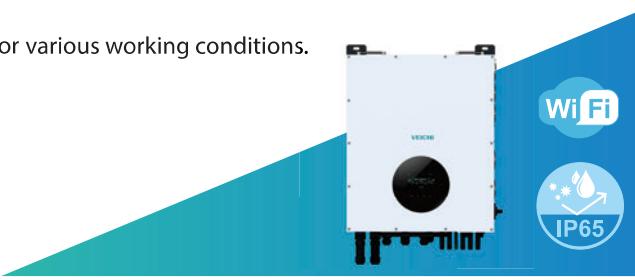


# SIT Series IP65 Hybrid Inverter

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- 150% unbalanced load support
- Dual outputs for smart load management
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Parallel operation up to 4 units



## SIT Series Hybrid Inverter Selection Guide

MODEL	SIT-30K-H
Maximum PV Input Power	40000 W
Rated Output Power	30000 W
Maximum Charging Power	18000 W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPPT Voltage Range	350 VDC ~ 900 VDC
Number of MPPT Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
Number of Strings Per MPPT Tracker	A: 2, B: 2, C: 2
<b>GRID/UTILITY OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor	0.9 lag to 0.9 lead
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	1000 VDC
MPPT Voltage Range	350 VDC ~ 900 VDC
Number of MPPT Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	96%
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPPT Voltage Range	350 VDC ~ 900 VDC
Number of MPPT Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	96%
<b>BATTERY &amp; CHARGER</b>	
Battery Voltage Range	500 ~ 800 VDC
Maximum Charging Current	50 A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73
<b>INTERFACE</b>	
Communication Port	RS-232, USB, DRY CONTACT, RS-485 and WiFi
Intelligent Slot	Optional SNMP, MODBUS and GPRS
<b>ENVIRONMENT</b>	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (>45°C De-rating)
Altitude	0 ~ 1000 m**

\*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

\*\* Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.