

SINGLE PHASE HYBRID INVERTER
AN-HYI-S 6KW

»» Features

- IP65 waterproof and dustproof
- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, battery or grid
- Built-in communication port for BMS(RS485)
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backupd
- Parallel operation up to 6 units
- Built-in CT function
- Color and touch LCD, more function design

MODEL	HYI-S6000
Phase	1-phase in/1-phase out
Maximum PV Input Power	9000W
Rated Output Power	6000W
Maximum Charging Power	6000W
GRID-TIE OPERATION	
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
Start-up Voltage /Initial Feeding Voltage	90Vdc/120Vdc
MPPT Voltage Range	50-500Vdc
Number of MPPT Trackers/Maximum Input Current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	26.1A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency(DC/AC)	97%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC/180 VAC
Acceptable Input Voltage Range	90-280 VAC
Frequency Range	50 Hz/60 Hz(Auto sensing)
Maximum AC Input Current	40A
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
MPPT Voltage Range	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	2/18A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
Start-up Voltage/Initial Feeding Voltage	90Vdc/120Vdc
MPPT Voltage Range	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	26.1A
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120-140 VAC/180 VAC
Acceptable Input Voltage Range	90-280VAC or 170-280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48Vdc
Maximum Solar Charging Current	135A
Maximum AC Charging Current	135A
Maximum Charging Current	135A
GENERAL	
PHYSICAL	
Dimension, DxWx H(mm)	521x470x236
Net Weight (kg)	27.5
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	RS232/RS485/CAN/WiFi/Dry contact
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
IP degree	IP65
Operating Temperature	-10°C~50°C
Storage Temperature	-15°C~60°C