

hinen

SINGLE-PHASE OFF-GRID INVERTER

H3600-OG/H4000-OG/H5000-OG/H6000-OG



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Datasheet

Specifications Parameters

	H3600-OG	H4000-OG	H5000-OG	H6000-OG
Line Mode Specifications				
Input Voltage Waveform	Sinusoidal (utility or generator)			
Nominal Input Voltage	230Vac			
Low Loss Voltage	170Vac \pm 7V (UPS); 90Vac \pm 7V (Appliances)			
Low Loss Return Voltage	180Vac \pm 7V (UPS); 100Vac \pm 7V (Appliances)			
High Loss Voltage	280Vac \pm 7V			
High Loss Return Voltage	270Vac \pm 7V			
Max AC Input Voltage	300Vac			
Nominal Input Frequency	50Hz/60Hz (Auto sensing)			
AC Input Frequency Range	45~54Hz (50Hz) /56~65Hz (60Hz)			
Low Loss Frequency	45 \pm 1Hz (50Hz)/56 \pm 1Hz (60Hz)			
Low Loss Return Frequency	47 \pm 1Hz (50Hz)/58 \pm 1Hz (60Hz)			
High Loss Frequency	54 \pm 1Hz (50Hz)/65 \pm 1Hz (60Hz)			
High Loss Return Frequency	52 \pm 1Hz (50Hz)/63 \pm 1Hz (60Hz)			
Output Short Circuit Protection	Circuit Breaker			
Efficiency (Line Mode)	>94% (Rated R load, battery full charged)			
Transfer Time (UPS/APL)	10ms Max /15ms Max			
Output power derating:	<p>When AC input voltage drops to 170V, the output power will be derated.</p>			

Inverter Mode Specifications

Rated Output Power	3600VA/3600W	4000VA/4000W	5000VA/5000W	6000VA/6000W
Max. AC Output Active Power	3960W	4400W	5500W	6600W
Parallel Capability	Yes,16 units maximum			
Output Voltage Waveform	Pure Sine Wave			
Output Voltage Regulation	230Vac \pm 5%			
Output Frequency	50/60Hz			
Nominal Output Current	27A			
Overload Protection	5s@ \geq 150% load; 10s@110%~150% load			
Max. Bypass Current	35A			
Surge Power	7200VA, 5S	8000VA, 5S	10000VA, 5S	12000VA, 5S
Surge Capacity	2*rated power for 5 seconds			
Nominal DC Input Voltage	48.0Vdc			
Cold Start Voltage (Lead-Acid Mode)	46.0Vdc			
Cold Start SOC (Li Mode)	Default 30%, Low DC Cut-off SOC +10%			
Low DC Warning Voltage (Lead-Acid Mode)	44.0Vdc @ load < 20% 42.8Vdc @ 20% \leq load < 50% 40.4Vdc @ load \geq 50%			
Low DC Warning Return Voltage (Lead-Acid Mode)	46.0Vdc @ load < 20% 44.8Vdc @ 20% \leq load < 50% 42.4Vdc @ load \geq 50%			
Low DC Cut-off Voltage (Lead-Acid Mode)	42.0Vdc @ load < 20% 40.8Vdc @ 20% \leq load < 50% 38.4Vdc @ load \geq 50%			
Low DC Cut-off Voltage (Li Mode)	42.0Vdc			
Low DC Warning SOC (Li Mode)	Low DC Cut-off SOC +10%			

Low DC Warning Return SOC (Li Mode)	Low DC Cut-off SOC +12%			
Low DC Cut-off SOC (Li Mode)	Default 20%, 5%~50% settable			
High DC Recovery Voltage	56.4Vdc (C.V. charging voltage)			
High DC Cut-off Voltage	60.8Vdc			
No Load Power Consumption	<60W			
Charge Mode Specifications				
Utility Charging Mode				
Charging Algorithm 3-Step				
Max. AC Charging Current	90Amp (@VI/P=230Vac)	100Amp (@VI/P=230Vac)	110Amp (@VI/P=230Vac)	120Amp (@VI/P=230Vac)
Bulk Charging Voltage	Flooded Battery	58.4Vdc		
	AGM / Gel	56.4Vdc		
Floating Charging Voltage 54.0Vdc				
Charging Curve				
MPPT Solar Charging Mode				
Max. PV Array Power	9000W (4500W+4500W)			
Number of Independent MPP Trackers/ Strings Per MPP Tracker	2/1			
Max. PV Input Current	16A+16A			
Start-up Voltage	120Vdc ± 10Vdc			
PV Array MPPT Voltage Range @ Operating Voltage	150VDC ~ 480VDC			
Max. PV Array Open Circuit Voltage	530VDC			

Max. Inverter Back Feed Current To The Array	0A			
Max. PV Charging Current	90A	100A	110A	120A
Max. Charging Current (AC Charger Plus Solar Charger)	90A	100A	110A	120A
Maximum MPPT Efficiency	99%			
General Specifications				
Protection Degree	IP20			
Operating Temperature	0°C ~ 55°C			
Storage Temperature	-25°C~ 60°C			
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Altitude	<2000m			
Dimension(W/H/D)	488/423/125mm			
Net Weight (kgs)	12.5			
Display	LCD+LED			
Communication Interface	CAN/RS485/WiFi/DRY Connector			
Warranty	3 years			
Standard & Certification				
IEC62109-1, IEC62109-2, IEC/EN 61000				