



General Specification

- Input Waveform: Sine Wave Utility or Generator)
- Nominal Voltage: 120VAC & 230VAC
- Low Voltage Trip: 90v ± 4% & 184v/154v ± 4%
- Low Voltage Re-engage: 100v ± 4% & 194v/164v ± 4%
- High Voltage trip: 140v ± 4% & 253v ± 4%
- High Voltage Re-engage: 135v ± 4% & 243v ± 4%
- Max. Input AC Voltage: 150VAC & 270VAC
- Nominal Input Frequency: 50Hz or 60Hz (Auto detect)
- Low freq trip: 47Hz for 50Hz, 57Hz for 60Hz
- High freq trip: 55Hz for 50Hz, 65Hz for 60Hz
- Output Waveform: (Bypass mode) same as input
- Overload protection: Circuit breaker
- Short circuit protection: Circuit breaker
- Transfer switch rating: 30amp or 40amp
- Efficiency on line transfer mode: 95%+
- Line transfer time: 10ms Typical
- Bypass without battery connected: Yes
- Max. bypass current: 30amp or 40amp
- Bypass overload current: 35amp or 45amp: Alarm

Sine Wave Combined Inverter & Charger Off-Grid 1K-6K



Models	HSI-401K	HSI-401-5K	HSI-402K	HSI-403K	HSI-404K	HSI-405K	HSI-406K
Inverter Specifications / Output							
Output waveform:	Pure sine wave or quasi sine wave						
Output continuous power watts:	1000	1500	2000	3000	4000	5000	6000
Output continuous power VA:	1000	1500	2000	3000	4000	5000	6000
Power factor:	0.9- 1.0						
Nominal output voltage rms:	120/230VAC						
Output voltage regulation:	+/- 10% rms						
Output frequency:	50Hz ± 0.3Hz or 60Hz ± 0.3Hz						
Nominal efficiency:	>88%						
Surge ratings:	3000	4500	6000	9000	12000	15000	18000
Short circuit protection:	Yes, fault after 10 secs						
Inverter Specifications / Input							
Nominal input voltage:	12v		24v		48v		
Minimum start voltage:	10v		20v		40v		
Low battery alarm:	10.5v		21v		42v		
Low battery trip:	10v		20v		40v		
High Voltage alarm:	16v		32v		64v		
Power saver:	Below 25 watts when enabled; Same switched on/off on remote						
Charge Mode Specifications							
Input voltage range:	95- 127VAC			194- 243VAC / 164- 243VAC (W)			
Output voltage:	Dependent on battery type						
Charge current:	35A / 70A						
Battery initial voltage for start up:	0-15.7v for 12v(*2 for 24v; *4 for 48v)						
Over charge protection shutdown:	15.7v for 12v(*2 for 24v; *4 for 48v)						
Charger curves (4 stage constant current) Battery types 4 step digital controlled progressive charge							
Battery Type:	Fast V		Float V(*2 for 24v; *4 for 48v)				
Gel U.S.A	14.0		13.7				
A.G.M. 1	14.1		13.4				
A.G.M. 2	14.6		13.7				
Sealed Lead Acid	14.4		13.6				
Gel Euro	14.4		13.8				
Open Lead acid	14.8		13.3				
Calcium	15.1		13.6				
De-sulphation	15.5 for 4 hours						
Remote Control / RS232 / USB	YES OPTIONAL						
Size(mm ³):	1000/2000/3000 Model: 442*218*179mm ³						
	4000/5000/6000 Model: 598*218*179mm ³						
Weight:	1000	1500	2000	3000	4000	5000	6000
	15kg	18kg	20kg	22kg	35kg	38kg	40kg