

SPECIFICATION FOR SERIES INVERTER UPS 5 TO 10KVA

HYUNDAI MODEL	HDI-5K1	HDI-8K1	HDI-10K1
Rated Power	5KVA/4Kw	8Kva/6.4Kw	10Kva/8Kw
Type	1 Ph Input - 1 Ph Output		
Technology	DSP based PWM Technology using IGBT with Galvanic Isolation		
INPUT PARAMETERS			
No. of Phases	1 Phase, 3 Wire (P,N,E)		
Voltage Range	140V ~ 280VAC		
Frequency Range	45Hz ~ 55Hz		
OUTPUT PARAMETERS			
No. of Phases	1 Phase, 3 Wire (P,N,E)		
Voltage Regulation	220V ± 10%		
Frequency Regulation	50Hz ± 0.1 Hz		
Peak Efficiency	>90%		
Output Waveform	Pure Sine Wave		
Output Power Factor	0.75 ~ 0.80		
Total Harmonic Distortion	<7% (On Linear Load)		
Overlead Handling Capacity	110% for 10 Sec		
BATTERY PARAMETERS			
Battery String Voltage	96VDC	120VDC	180VDC
Number of 12V Batteries	8	10	15
Battery Recommendation	High Quality Deep Discharge Lead Acid Tubular or Tower Tubular Battery		
Configuration	100Ah ~ 200Ah / 12V		
Battery Charging Current	8-10% of the rated battery capacity		
Typical Recharge Time	90% Capacity After 8hrs Charging		
Back-up Time (Typical)	> 2Hr ~ 4Hr at Full Load (Depending on model capacity, battery AH and connected load)		
INDICATION & COMMUNICATION			
Communication Interface	Smart RS232 Communication with Monitoring Software (SNMP, Modem Optional)		
Bypass	Manual standard & Automatic(OPTIONAL)		
Functions & Protection	Over Load, Short Circuit, Reverse Phase, Low Battery, Battery Deep Discharge, Battery Charged, Battery Charging, Over Temperature, Mains / Back-up Mode etc		
LCD Indication	Input Voltage / Frequency, Output Voltage / Frequency, Load/Battery bar graph, Operation Mode such as "on line", "on batt", or "or bypass"		
Audible Alarm	Illegal Shut down / Battery Mode / Low Battery / Over Load / Over Temperature / Fault		
ENVIRONMENTAL PARAMETERS			
Storage Temperature	0 ~ 50°C		
Operating Temperature	0 ~ 40°C		
Acoustic Noise at 1Mtr.	<55db		
Relative Humidity	0 ~ 90% Non Condensing		
Thermal Management	Integrated Cooling (Fan & Heat Sink) with excellent Aerodynamic Design		
PHYSICAL PARAMETERS			
Dimensions - Physical / Packing (WxDxH) in mm	300x500x508	270x570x720	270x570x720
	430x640x590	370x670x940	370x670x940
Weight - Net / Gross (Kgs)	46/52	34/48	36/51