

**SPECIFICATION FOR SERIES HOME UPS**

<b>HYUNDAI MODEL</b>	<b>HD-600H</b>	<b>HD-800H</b>	<b>HD-1400H</b>	<b>HD-2500H</b>	<b>HD-3000H</b>
Rated Power	600VA/480W	800VA/640W	1400VA/1120W	2.5Kva/2Kw	3.0Kva/2.4Kw
Type	Single Phase Input - Single Phase Output				
Operation	Fully Automatic Changeover (Mains to system on power failure & vice-versa)				
Inverter Output Transformer	Galvanic Isolation				
Technology	Advanced DSP / Microcontroller based state-of-the-art technology, using MOSFET / IGBT Smart SMPS Based Charger with Automatic Power Factor Correction (APFC)				
<b>BACK-UP MODE</b>					
Output Waveform	Sine Wave				
Output Power Factor	0.8 PF				
Mains Output Voltage	Same As Input Voltage (45Hz~55Hz)				
Voltage Regulation	200V/220V ± 25V				
Frequency Regulation	50Hz ± 0.1 Hz				
Max. No Load Battery Current	<5% of Rated DC				
Peak Efficiency	<85%				
Load Crest Factor	>3:1				
Total Harmonic Distortion	<7% ( On Linear Load)				
Low Battery Indication	10.5 ± 0.2V Per Battery (12V DC Each)				
Low Battery Cut off	10.3 ± 0.2V Per Battery (12V DC Each)				
<b>MAINS MODE</b>					
Input Frequency	45Hz ~ 55Hz				
Full Load Output Current	150% of Rated Capacity				
Boost Charging Voltage	13.9V ± 0.2 Per Battery (12V DC Each)				
Float Charging Voltage	13.6V ± 0.2 Per Battery (12V DC Each)				
Battery Lower Voltage Limit	10.0V ± 0.2V Per Battery (12V DC Each)				
<b>NORMAL / INVERTER MODE</b>					
Input Voltage Range	100V ~ 280V ± 10VAC (Wide Window)				
Mains A.C. Low Cut Recovery	120V ± 10 V				
Mains A.C. High Cut Recovery	275V ± 10 V				
Typical Transfer Time	<25ms				
<b>UPS MODE</b>					
Input Voltage Range	185V ~ 285V ± 10VAC (Narrow Window)				
Mains A.C. Low Cut Recovery	190V ± 10 V				
Mains A.C. High Cut Recovery	260V ± 10 V				
Typical Transfer Time	<10ms				
<b>BATTERY PARAMETERS</b>					
Charging Source	Grid, Generator and Alternative Renewable Energy (Solar Panels / Wind Turbine)				
Battery String Voltage	12VDC	12VDC	24VDC	48VDC	48VDC
Number of 12V Batteries	1	1	2	4	4
Battery Recommendation	High Quality Deep Discharge Lead Acid Tubular or Maintenance-free VRLA, AGM Battery				
Configuration	100AH <= 12V External Battery =>180AH			120AH <= 12V External Battery =>200AH	
Max Charging Current Limit	Normal Charging (NC) : 8A ± 1Amp and High Charging (HC) : 10A ± 1Amp				
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)				
<b>PROTECTIONS</b>					
Over Load Protection	Above 100% (with Auto Reset Function)				
Short Circuits Protection	>250% Load (with Manual Reset Function)				
Thermal Protection	>70°C				
Input	Fuse	Miniature Circuit Breaker (MCB)			
Maintenance Bypass	NA	Provided			
Functions & Protection	Over Load, Short Circuit, Reverse Phase, Low Battery, Battery Deep Discharge, Battery Charged, Battery Charging, Over Temperature, Mains / Back-up Mode etc				
<b>ADVANCE WARNING / DIAGNOSTICS</b>					
Front Panel Display	LED			LED	
	Indication - AC Mode / Battery Mode / Low Battery / Over Load / Fault				
Audible Alarm	Illegal Shut down / Battery Mode / Low Battery / Over Load / Over Temperature / Fault				
<b>ENVIRONMENTAL PARAMETERS</b>					
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				
<b>PHYSICAL PARAMETERS</b>					
Dimensions - Physical / Packing (WxDxH) in mm	330x250x110	330x250x110	330x280x140	200x420x360	200x420x360
	375x295x155	375x295x155	375x325x185	300x500x460	300x520x460
Weight - Net / Gross (Kgs)	9/10	10/11	17/18	29/31	31/34