| SPECIPICATION FOR SERIES HOME UPS | | | | | |
|---|---|---|---|---|---|
| **HYUNDAI MODEL** | **HD-600H** | **HD-800H** | **HD-1400H** | **HD-2500H** | **HD-3000H** |
| 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) | | | | |
| Inveter 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) | | | | |
| **BACK-UP MODE** | | | | | |
| 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) | | | | |
| **MAINS MODE** | | | | | |
| 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) | | | | |
| **NORMAL / INVERTER MODE** | | | | | |
| 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 | | | | |
| **UPS MODE** | | | | | |
| 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 | | | | |
| **BATTERY PARAMETERS** | | | | | |
| 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) | | | | |
| **PROTECTIONS** | | | | | |
| 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) | | |
| Maintenace 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 | | | | |
| **ADVANCE WARNING / DIAGNOSTICS** | | | | | |
| 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 | | | | |
| **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 excilent Aerodynamic Design | | | | |
| **PHYSICAL PARAMETERS** | | | | | |
| 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 |