

SPECIFICATION FOR SERIES INVERTER UPS 8 TO 30KVA

| HYUNDAI MODEL | HDI-8K1 | HDI-10K1 | HDI-15K1 | HDI-20K1 | HDI-30K1 |
|---|---|--------------|--------------|--------------------|--------------|
| Rated Power | 8Kva/6.4Kw | 10Kva/8Kw | 15Kva/12Kw | 20Kva/16Kw | 30Kva/24Kw |
| Type | 3 Phase Input - 3 Phase Output | | | | |
| Technology | DSP based PWM Technology using IGBT with Galvanic Isolation | | | | |
| INPUT PARAMETERS | | | | | |
| No. of Phases | 3 Phase, 4 Wire and Ground | | | | |
| Voltage Range | 300V ~ 470VAC | | | | |
| Frequency Range | 45Hz ~ 55Hz | | | | |
| OUTPUT PARAMETERS | | | | | |
| No. of Phases | 3 Phase, 4 Wire and Ground | | | | |
| Voltage Regulation | 230 ± 10% (P:N) ; 400V ±10% (P:P) | | | | |
| 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 Secs, 150% for 1secs, | | | | |
| BATTERY PARAMETERS | | | | | |
| Battery String Voltage | 120 / 180VDC | 180VDC | 180 / 360VDC | 360VDC | 360VDC |
| Number of 12V Batteries | 10 / 15 | 15 | 15 / 30 | 30 | 30 |
| Battery Recommendation | High Quality Deep Discharge Lead Acid Tubular or Tower Tubular Battery | | | | |
| Configuration | 45Ah ~200Ah / 12V | | | 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 | 260x570x717 | 555x725x1220 | 555x725x1220 | 555x725x1220 | 555x725x1220 |
| | 430x700x845 | 660x855x1425 | 660x855x1425 | 660x855x1425 | 660x855x1425 |
| Weight - Net / Gross (Kgs) | 39/51 | 223/280 | 260/317 | 265/325 | 336/393 |