

SPECIFICATION FOR SERIES ONLINE UPS 15 TO 30KVA

HYUNDAI MODEL	HD-15K2	HD-20K2	HD-30K2
Rated Power	5KVA/12KW	20KVA/16KW	30KVA/24KW
Type	Three Phase Input - Single Phase Output		
Technology	DSP Based Double Conversion On-line system with Galvanic Isolation		
INPUT PARAMETERS			
No. of Phases	3 Phase 4 Wire and Ground		
Voltage Range	400V ± 20%		
Frequency Range	50Hz ± 5Hz		
Input Power Factor	>0.95		
OUTPUT PARAMETERS			
No. of Phases	1 Phase, 2 Wire (P,N)		
Voltage Range	220VAC ± 1%		
Frequency Range	Synchronized with the utility on AC mode; 50Hz ± 0.2% on Battery Mode		
Waveform	100% Pure Sine Wave		
THD (linear load)	<2%		
THD (non-linear load)	<6%		
Overload Capability	>105% 1min turn to Bypass Mode		
	>150%, 200ms turn to Bypass Mode		
Load Crest Factor	3:1 (Max)		
Short Circuit Protection	5 cycles turn off Online, no transfer to bypass, Provide alarm (AC mode)		
	5 cycles turn off Online, Provide alarm (battery mode) Input fuse blown or breaker action (bypass		
Transfer Time	Between AC Mode and Battery Mode : 0ms		
	Between AC Mode and Bypass Mode 4ms (typical value 2.5ms)		
Peak Efficiency	>88%		
BATTERY PARAMETERS			
Battery Recommendation	High Quality Deep Discharge Lead Acid Maintenance-free VRLA, AGM Battery		
Configuration	7AH ≤ 12V External Battery ⇒ 200AH		
Battery String Voltage	120/240/360VDC		
Number of 12V Batteries	10/20/30		
Charging Technology	Advance Battery Management (ABM) Function, Automatically convert to constant-current constant-voltage charging technology.		
Charge Current	10% of the rated battery capacity		
Recharge Time	90% Capacity After 8hrs Charging (External Battery)		
Back up Time	>2Hr ~ 4Hr at Full Load (External Battery)		
INDICATION & COMMUNICATION			
Communication Interface	Smart RS232 Communication with Monitoring Software (SNMP Optional)		
Parallel Port	Parallel availability for redundancy and load sharing up to three units (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	Input Voltage / Frequency, Battery Voltage, Output Voltage / Frequency, Load Watt/VA and Percent, Temperature		
	Operation Mode such as "on line", "on batt", or "or bypass"		
LED	Green LED for Normal Operation ; Yellow LED for Warning Condition ; Red LED for Abnormal Operation		
Bypass	Manual / Automatic		
ENVIRONMENTAL PARAMETERS			
Storage Temperature	40 ~ 45°C		
Operating Temperature	0 ~ 40°C		
Acoustic Noise at 1Mtr.	<55db		
Relative Humidity	0 ~ 95% Non Condensing		
Thermal Management	Integrated Cooling (Fan & Heat Sink) with excellent Aerodynamic Design		
PHYSICAL PARAMETERS			
Dimensions - Physical / Packing (WxDxH) in mm	320x620x950		
	410x717x1050		
Weight - Net / Gross (Kgs)	60/74Kg		