

SPECIFICATION FOR SERIES ONLINE UPS 10 TO 20KVA			
HYUNDAI MODEL	HD-10K3	HD-15K3	HD-20K3
Capacity	10KVA/8KW	15KVA/12KW	20KVA/16KW
Type	Three Phase Input - Three 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 \pm 20%		
Frequency Range	45 ~ 55Hz		
Input Power Factor	=0.9		
OUTPUT PARAMETERS			
No. of Phases	3 Phase 4 Wire and Ground		
Voltage Range	380/400/415V (Optional)		
Phase Voltage Setting	200V-240V (Selectable from inside panel)		
Frequency Range	50/60Hz \pm 0.1Hz		
Waveform	Pure Sine wave		
Total Harmonic Distortion	3% (Linear Load)		
Overload Capacity	110% / 125% / 150% Rated Current 10 min / 1min / 1sec		
Load Crest Factor	3:1 (Max)		
Short Circuit Current	0.1s (200% current)		
Transient Response	\pm 5% in 10ms		
Range of Phase Lock	With synchronization: \pm 0.05% ; Without synchronization: \pm 2% (Selectable \pm 1% on the control		
Peak Efficiency	90%		
BATTERY PARAMETERS			
Battery Recommendation	High Quality Deep Discharge Lead Acid Maintenance-free VRLA, AGM Battery		
Configuration	7AH \leq 12V External Battery \Rightarrow 200AH		
Battery String Voltage	360vdc		
Number of 12V Batteries	32		
Charging Technology	Intelligent Battery Management Function (ABM), Automatically convert to constant-current constant-voltage charging technology.		
Charge Current	10% of the rated battery capacity		
Recharge Time	90% Capacity After 8hrs Charging		
Back up Time	> 2Hr ~ 4Hr at Full Load (Depending on model capacity, battery AH and connected load)		
BYPASS			
Type	Manual By Inbuilt		
Input Phase	3 phase 4 wire and ground		
Input voltage range	15% ~ 25% (the front control panel selectable)		
Input frequency range	\pm 1% ~ \pm 5% (the front control panel selectable)		
Transfer Time	Between AC Mode and Battery Mode : 0ms		
	Between AC Mode and Bypass Mode 1ms		
Overload Capacity (10min)	110%		
INDICATION & COMMUNICATION			
Communication Interface	Smart RS232 Communication with Monitoring Software (SNMP Optional)		
Remote Signaling	Dry Contact (Battery low, Battery Discharging, Bypass/ Fault) ; Output 12Vdc / 80mA (Optional)		
Remote Control	EPO & Bypass (Optional)		
Parallel Port	Parallel Modules can be up to six(OPTIONAL)		
Functions & Protection	Over Load, Short Circuit, Low Battery, Battery Deep Discharge, Battery Charged, Battery		
LCD	Standard Parameters		
	Operation Mode such as "on line", "on batt", or "or bypass"		
ENVIRONMENTAL PARAMETERS			
Storage Temperature	40 ~ 45°C		
Operating Temperature	0 ~ 40°C		
Acoustic Noise at 1Mtr.	<55db		
Relative Humidity	0 ~ 95% Non Condensing		
Altitude	1000m output nominal power (with increase of 100m, it will reduce output of 1%) max 4000m		
Thermal Management	Integrated Cooling (Fan & Heat Sink) with excellent Aerodynamic Design		
PHYSICAL PARAMETERS			
Dimensions - Physical / Packing (WxDxH) in mm	555x725x1220		
	660x855x1425		
Weight - Net / Gross (Kgs)	223/280	260/317	265/325