

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		
<b>INPUT PARAMETERS</b>			
No. of Phases	3 Phase 4 Wire and Ground		
Voltage Range	400V $\pm$ 20%		
Frequency Range	45 ~ 55Hz		
Input Power Factor	=0.9		
<b>OUTPUT PARAMETERS</b>			
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%		
<b>BATTERY PARAMETERS</b>			
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)		
<b>BYPASS</b>			
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%		
<b>INDICATION &amp; COMMUNICATION</b>			
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"		
<b>ENVIRONMENTAL PARAMETERS</b>			
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		
<b>PHYSICAL PARAMETERS</b>			
Dimensions - Physical / Packing (WxDxH) in mm	555×725×1220		
	660×855×1425		
Weight - Net / Gross (Kgs)	223/280	260/317	265/325