

LOW FREQUENCY 3 PHASES UPS

HYUNDAI

10KVA - 600KVA



Brief

Hyundai New Energy Technology is excited to extend our 3-phase solutions with the perfect HD-k3 Series of transformer based double conversion on-line UPS. This series UPS adopts high-speed microprocessor (MCU), Programmable logic device (CPLD) program which are controlled by software, the sixth generation low-exhaust and big-power IGBT and static switch as power components. This series product combines the world's newest control spare parts and the most advanced software. It entirely breaks through the technical bottleneck in traditional simulation age. It adopts the digital control technology and high-precision SMD technology. This UPS can suit for various power grid environments. All features can offer users the big capacity, flexibility, high reliability, stability etc. at a value expected from Hyundai name.

This series is widely used in telecom, bank, security, transporting, utility, manufacture, industry, commerce, government, medical equipment etc.

Highlights

- True On line-Double Conversion Technology.
- 7 inches Big Screen Display.
- Stable Rectifier and Harmonic Filters.
- IGBT PWM Inverter Technology.
- High Efficiency up to 92%.
- Wide Input Voltage Range.
- Advanced Battery Management.
- Short Circuit and Overload Protection.
- 256 Real Time Event Log with Detailed Parameters.
- Static & Manual Bypass Operation.
- Advanced Communication Capabilities.
- Perfect Generator Compatibility.
- Cold Start Function.
- Auto Restart Function.
- Can Set ECO Work Mode.
- Optional EPO Function.

Main Features

- Digital control technique
- Advanced digital circuit system, provide over stable machine run
- Advanced & Intelligent battery management:
- Intelligent inspection system
- Parallel redundancy
- High Precision SMD technique
- The 6th Generation IGBT Inverter
- Static & Manual (Maintenance) Bypass
- Auto Restart
- Advanced User Interface
- Advanced communication Capabilities
- High-performance dynamic characters
- 3 phases separately adjustment, balance stabilizing
- Perfect Generator Compatibility
- Optional EPO (Emergency Power Off)

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Specification

MODEL		HD-10K3-600K3																																			
Capacity(kVA)		10	15	20	25	30	40	50	60	80	100	120	160	200	250	300	400	500	600																		
Power Watt(kW)		8	12	16	20	24	32	40	48	64	80	96	128	160	200	240	320	400	480																		
Working Principle		Low Frequency Transformer Based True On Line-Double Conversion																																			
Phase		Three Phase																																			
Input Power Factor		Standard ≥ 0.9 (6pulse Rectifier+Filter), Optional ≥ 0.96 (12pulse Rectifier+Filter)																																			
Input Voltage Range		220/380VAC (230V/400VAC or 240V/415VAC) $\pm 25\%$ 3P+N+PE ; 110V/208VAC (120V/220VAC or 277V/480VAC) optional																																			
Input Frequency Range		50Hz $\pm 10\%$ / 60Hz $\pm 10\%$ (Selectable)																																			
Total Harmonic Distortion (THDi)		6pulse Rectifier $\leq 3\%$, Optional 12pulse Rectifier & Filter $\leq 5\%$																																			
Output Ripple		$\leq 2\%$																																			
Soft Start		0-100% 5sec																																			
Charging Mode		Constant current, then constant voltage, charge with temperature compensation, automatic switch Between Equalized charging and Float charging.																																			
Float Charging Voltage		432VDC												864VDC																							
Equalized Charging Voltage		464VDC												928VDC																							
Temp. Compensated Voltage		-3mV / °C/cell																																			
Charging Current		0.1C (Automatic adjust according to battery capacity)																																			
Type		VRLA/AGM/Gel, optional Lithium Battery																																			
Battery Capacity		7~ 999AH settable (Configure Battery Capacity according to Back-up Time)																																			
Quantity		32units 12V batteries (Standard Model: 384VDC)												64units 12V batteries																							
Temperature		20°C-25°C (For Maximum Efficiency)																																			
Phase		Three Phase																																			
Power Factor		0.8																																			
Nominal Voltage		220/380VAC (230V/400VAC or 240V/415VAC), 3P+N 110V/208VAC (120V/220VAC or 277V/480VAC) optional																																			
Output Voltage Regulated Accuracy		$\pm 1\%$ (Stable load), $\pm 3\%$ (fluctuant load)																																			
Output Frequency Range		50Hz 60Hz $\leq \pm 0.5\%$ (Asynchronous)																																			
Crest Factor		3:1																																			
Output Total Harmonic Distortion (THD)		Pure Sine Wave, Linear Load $\leq 3\%$, Non-Linear Load $\leq 5\%$																																			
Dynamic Characteristics		Instant voltage $\leq \pm 5\%$ (from 0 to 100%), Instant recover time $\leq 10ms$																																			
Unbalanced Load Voltage		$\leq \pm 5\%$																																			
Overload Capacity		At 115% load, normal work, At 125% load 10 min, At 150% load 1min, At 200% load 1S																																			
Inverter Efficiency		$\geq 92\%$ (full load)						$\geq 93\%$ (full load)						$\geq 95\%$ (full load)																							
Phase		3 Phase +N																																			
Input Nominal Voltage		220/380VAC (230V/400VAC or 240V/415VAC)						110V/208VAC (120V/220VAC or 277V/480VAC) optional																													
Output Nominal Voltage		220/380VAC (230V/400VAC or 240V/415VAC)						110V/208VAC (120V/220VAC or 277V/480VAC) optional																													
Transfer Time		0ms (adopt static switch)																																			
Input Protection		Input voltage, frequency over limited protection, Phase fault, Phase lack																																			
Output Protection		Over current, short circuit, over voltage, low voltage																																			
Battery Protection		Over charge, over-discharge protection																																			
Temperature Protection		Environment over temperature protection, inverter over temperature protection																																			
Hardware Fault Protection		Assistant power abnormal, breaker cut off, breaker overload, power devices over current/over voltage etc protection																																			
Working Environment		Temp: -10 ~ 40°C, relative humidity: 30% ~ 90%, Altitude $\leq 2000m$ (1% decrease against 100 meters'rise, max. altitude 4000m)																																			
Cooling Method		COMPULSIVE VENTILATION																																			
Communication Interface		RS232/ RS485, optional dry contact, SNMP card (for remote control via Internet)																																			
Parallel Operation		4units, max. 8units (optional)																																			
Anti-surge Capacity		10/700 S, 5KV; 8/20 S, 20KA																																			
Protection Level		IP31												IP30																							
Safety Performance		Vin-n Vout-n 3000Vac, creepage $\leq 3.5mA$, insulating resistance $\geq 2M \Omega$ (500VDC)																																			
Noise (dB)		48-55				55-60				60-65				65-70																							
Dimension (W*D*H) mm (Standard model)		600*620*1250				700*600*1520				980*800*1800				1380*950*1800				2000*900*2000		2000*1200*2000																	
Weight (Kg)		205		254		265		304		311		407		485		506		770		913		937		1440		1710		1980		2810		3060		3860		4120	

We reserves the right to change or modify product design, construction, specifications or materials without prior notice and without incurring any obligation to make such changes and modifications on our products previously or subsequently sold.