SYNDOME

ผู้นำด้านระบบสำรองไฟฟ้า

Hercules Tower Series

HIGH PERFORMANCE
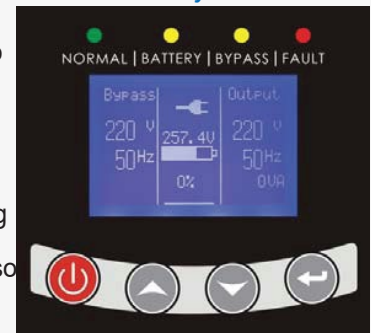### TRUE ONLINE DOUBLE CONVERSION UPS

Features

- DSP Control
- 0.9 Output Power Factor
- Wide Input Range
- High Efficiency Mode (ECO)
- Frequency Converter Mode
- Input THDI < 5%
- Output THDv < 2%
- Output Voltage Regulation <1%
- N+X Parallel Redundancy
- Dot Matrix LCD Display
- Maintenace bypass switch
- Extendable Run Time
- Fan Speed Control
- Free Power Manangement Software
- Multiple Communication Port
- Optional SNMP & Relay Cards
- Optional Over Voltage Cut-Off device (OVCD)
  for Tough environment

Hercules series, built for the most reliability, purity and power

Trendy & Elegant LCD & LED Design for real-time UPS system information

Hercules Series UPS make use of the unique True Online Double Conversion circuitry to detect the electricity current and voltage output of utility power supply. The current is input via high frequency PWM to maintain uniform wave form and phase in line with the voltage, so as to attain high input power factor over to 0.99 and avoid generating comparatively significant harmonic interference on the power network.

With the use of the outstanding IGBT as the power convertion component, the operating frequency of the Inverter of UPS is capable of reaching tens of KHz, due to the high frequency operating characteristics of IGBT. Higher working efficiency of the inverter also improves the overall efficiency of UPS and higher inversion frequency reduces the noise of the inverter as well.

NORMAL | BATTERY | BYPASS | FAULT

Bypass 220 V 50Hz | 257.4V 0% | Output 220 V 50Hz 0VA

Hercules Tower Series

Parallel Redundancy N+X ✓

SPECIFICATION

MODEL			HE6K	HE6KS	HE10K	HE10KS
CAPACITY	VA/WATT		6000VA/5400W (PF0.9)		10000VA/9000W (PF0.9)	
INPUT	Voltage Range		110 - 276 VAC			
	Frequency Range		45-55Hz / 54-66Hz			
	Phase		Single phase with ground			
	Current THDI		<5%			
	Power Factor		≧0.99			
	Generator Input		1.5 x UPS Rating Power			
OUTPUT	Voltage Range		208VAC/220VAC/230VAC/240VAC (± 1%)			
	Phase		Single phase with ground			
	Frequency (Synchonized Range)		45-55Hz/54-66Hz			
	Frequency (Battery Mode)		50/60Hz ± 0.05Hz			
	Current Crest Ratio		3:1			
	Harmonic Distortion		<= 2% THD (Linear Load)			
	Protection		Short Circuit Protection			
	Output Waform		Pure Sinewave			
	Outlet		Terminal Block			
	Overload Capacity	Line Mode	2 min @ 105%~125% ; 30 sec @ 125% ~ 150% ; 1 sec @ > 150%			
		Battery Mode				
EFFICIENCY	AC to AC Mode at full load		> 92%			
	ECO mode		> 96%			
BATTERY	Number of Batteries Per Set		20	Depending on the capacity of external batteries	20	Depending on the capacity of external batteries
	Battery Capacity (Ahr)		12V/(7/9)Ahr		12V/(7/9)Ahr	
	Backup Time (depend on load)		>15 min		>15 min	
	Recharge Time (to 90%)		5 Hours		5 Hours	
	Charging Current (Max.)		1.2A	4.0A	1.2A	4.0A
	Rated Battery Voltage		240 Vdc			
	Battery Type		Sealed Lead Acid Maintenance Free			
TRANSFER TIME	AD to DC		Zero			
Parallel	N+X Parallel Redundancy		Max 4 (Load Sharing)			
INDICATOR	LCD & LED		For LED: Bypass mode,UPS on,Line mode,Battery Mode, HE mode,Battery test mode,Fault mode,Waring mode For LCD: Input/Output Voltage&Frequency, Load level,Load Watt,Battery Voltage,Battery status,Converter mode, UPS status, Fault indicator, etc.			
AUDIBLE ALARM	Battery Mode		Sounding every 4 seconds			
	Low Battery		Sounding every second			
	Overload		Sounding twice every second			
	Fault		Continuously Sounding			
DIMENSION	W x H x D mm		260 x 708 x 550			
WEIGHT	kg		86	34 ex.bat	92	37 ex.bat
ENVIRONMENT	Operating Environment		0-40° C			
	Relative Humidity		0-95% (NON-CONDENSING)			
	Noise Level		<50dB @ 1 Meter		<55dB @ 1 Meter	
INTERFACE	USB (built-in) / RS-232		Software supports Windows Family, Linux, Sun Solaris, IBM AIX, Compaq True64, SGI IRIX, FressBSD, HP-UX and MAC			
	Smart Slot (Option)		SNMP Adapter/ AS400 Relay Card / RS485 / USB			
STANDARDS	Product standard QMS EMS		TIS 1291 Part 1-2553 , TIS 1291 Part 2-2553 , TIS 1291 Part 3-2555 Class C3 Certified Quality Management System ISO9001 Certified Environmental Management System ISO14001			