

Hercules Series

High Power Density

True Online Double Conversion UPS 1KVA - 3KVA



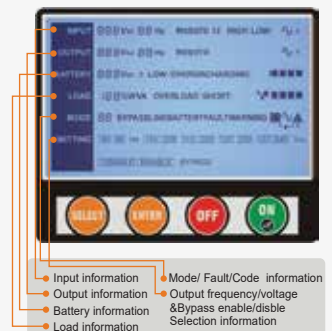
Features

- DSP Control
- 0.8 Output Power Factor
- Wide Input Range
- High Efficiency Mode (ECO)
- Frequency Converter Mode
- Input THDI < 5%
- Output THDv < 3%
- Output Voltage Regulation < 1%
- Compact Design
- Extendable Run Time
- Fan Speed Control
- Wide operating environment 0-45°
- Optional Over Voltage Cut-Off device (OVCD) for Tough environment
- Optional SNMP & Relay Cards

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

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 comparatively significant harmonic interference on the power network.

With the use of the outstanding IGBT as the power conversion component, the operating frequency of the Inverter of UPS is capable for reaching up to 20 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. Due to its components margins are increased, Hercules is suitable for higher temperature environment up to 45 celsius.



- Input information
- Output information
- Battery information
- Load information
- Mode/ Fault/Code information
- Output frequency/voltage
- Bypass enable/disable
- Selection information

MODEL			HE-1K	HE-1KS	HE-2K	HE-2KS	HE-3K	HE-3KS	
CAPACITY	VA/WATT		1KVA / 800W(PF.8)			2KVA / 1.6kW(PF.8)		3KVA / 2.4kW(PF.8)	
INPUT	Voltage Range		220 VAC ±25%						
	Frequency Range		50/60 Hz ±10%(selectable)						
	Phase		Single phase with ground						
	Current THDI		<5%						
	Power Factor		0.99						
	Generator Input		1.5 x UPS Rating Power						
	OUTPUT	Voltage Range		208/220/230/240 V ac ± 1% (selectable)					
Phase		Single phase with ground							
Frequency(Synchronized Range)		50/60 Hz ± 10%							
Frequency (Battery Mode)		50/60 Hz ± 0.1%							
Current Crest Ratio		3:1							
Harmonic Distortion		< 3% THD (Linear Load)							
Protection		Short Circuit Protection							
Output Waveform		Pure Sinewave							
Outlet		NEMA							
Overload Capacity		Line Mode	1 min @ 105%~110% ; 20 sec @ 110% ~ 125% ; 8 sec @ 125%~ 150% ; 1 sec @ > 150%V						
		BAT Mode							
EFFICIENCY	AC-AC mode at full load		> 87%/>84%		> 88%/85%				
	Eco mode		95%						
BATTERY	Number of Batteries		3	Depending on the capacity of external batteries	8	Depending on the capacity of external batteries	8	Depending on the capacity of external batteries	
	Battery Capacity (Ahr)		12V(7/9)Ahr		12V(7/9)Ahr		12V(7/9)Ahr		
	Backup time (depend on load)		>15 min		>15 min		>15 min		
	Recharge Time (to 90%)		5 Hours		5 Hours		5 Hours		
	Charging Current (Max.)		1.0A	4.0/8.0A	1.0A	4.0/8.0A	1.0A	4.0/8.0A	
	Battery Type		Sealed Leas Acid Maintenance Free						
TRANSFER TIME	AC to DC		Zero						
INDICATOR	LCD		Input information: Voltage / Frequency / High Voltage / Low Voltage / Utility Present / Utility Lost, Output information: Voltage / Frequency / Utily Present / UtilityLost, Load information: %Watt / % VA / Overload / Short circuit / Load level, Battery infomation: Voltage / Battery Level / Low / Over charging / Discharging, Mode information: Bypass / Line / Battery /Fault / Warning / Operating-Fault-Warning Code / Operating Mode Icon / Bypass configure: enable-disable						
AUDIBLE ALARM	Battery Mode		Sounding every 4 secods						
	Low Battery		Sounding every second						
	Overload		Sounding twice every second						
	Fault		Continuously Sounding						
DIMENSION	W x H x D mm		145 x 220 x 400				192 x 347 x 460		
WEIGHT	kg		14	7 ex.bat	34.5	15 ex.bat	35.5 ex.bat	16 ex.bat	
ENVIRONMENT	Operating Environment		0.40° C						
	Relative Humidity		0-95% (NON-CONDENSING)						
	Noise Level		<45dB @ 1 Meter				<50dB @ 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		TIS 1291 Part 1-2553 , TIS 1291 Part 2-2553 , TIS 1291 Part 3-2555 Class C1						
	QMS		Certified Quality Management System ISO9001						
	EMS		Certified Environmental Management System ISO14001						