

Hercules - RT Series

High Power Density Rack-Tower 2-IN-1 True Online Double Conversion UPS 1kVA-10kVA



HE-RT 1-3kVA



HE-RT 6-10kVA

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%
- Auto Self-Testing System
- Extendable Run Time
- Fan Speed Control
- Different source for Bypass (for 6-10kVA)
- Output load segments shutdown setup
- Free Power Management Software
- Multiple Communication Port
- Optional SNMP & Relay Cards
- Temperature Compensation
- N+X Parallel Redundancy (for 6-10kVA)



Hercules-RT 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 avoid generating 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 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.

Product Informations

Hercules RT Series

MODEL		HE-RT1k	HE-RT1kS	HE-RT2k	HE-RT2kS	HE-RT3k	HE-RT3kS	HE-RT6k	HE-RT6kS	HE-RT10k	HE-RT10kS	
CAPACITY	VA/WATT	1kVA/900W (PF0.9)		2kVA/1.8kW (PF0.9)		3kVA/2.7kW (PF0.9)		6kVA/5.4kW (PF0.9)		10kVA/9kW (PF0.9)		
INPUT	Voltage Range	120 - 276 VAC										
	Frequency Range	50/60 Hz ± 10% (Auto sensing)										
	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 VAC ± 1%										
	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	< 2% THD (Linear Load)										
	Protection	Short Circuit Protection										
	Output Waveform	Pure Sinewave										
	Outlet with load segments	NEMA x 8					IEC + TERMINAL					
	Overload Capacity	Line Mode	12s@102%-130%; 1.5s@130%-150%;100ms@>150%							2min@102%-130%; 30s@130%-150%;100ms@>150%		
BAT Mode									10s@102%-130%; 100ms@>130%			
EFFICIENCY	AC-AC Mode	> 88%		> 89%		> 92%		> 92%		> 93%		
	Battery Mode	> 83%		> 83%		> 86%		> 89%		> 90%		
	ECO mode	> 95%					> 96%		> 97%			
BATTERY	Number of Batteries Per Set	3	Depending on the capacity of external batteries	4	Depending on the capacity of external batteries	6	Depending on the capacity of external batteries	15	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		12V/(7/9)Ahr		12V/(5)Ahr		12V/(7/9)Ahr		
	Backup Time (depend on load)	>15 min		>15 min		>15 min		>15 min				
	Recharge Time (to 90%)	3 Hours	3 Hours	3 Hours	3 Hours							
	Charging Current (Max.)	1.5A	6.0A	1.5A	6.0A	1.5A	6.0A	1.0A	6.0A	1.7A	8.0A	
	Battery Type	Sealed Leads Acid Maintenance Free										
TRANSFER TIME	AC to DC	Zero										
Parallel	N+X Parallel Redundancy	N/A					Max 2 (Load Sharing)					
INDICATOR	LCD <small>* Not available in 1-3kVA model</small>	Input information: Voltage / Frequency , Output information: Voltage / Frequency, Load information: *Watt / *VA / *Current / Load Level(%), Battery information: Voltage / Battery Level (%) UPS information: *Temperature / Bypass mode / Line mode / Battery mode /Fault / Warning / *Running Time / *Event log, 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	438 x 86.5 x 435 (2U)				438 x 86.5 x 605 (2U)		438 x 129 x 698 (3U)		438 x 215.5 x 704 (5U)		
WEIGHT	kg	16.2	8.4	19.7	9.3	27.8	13	46	82.5			
ENVIRONMENT	Operating Environment	0-40° C										
	Relative Humidity	0-95% (NON-CONDENSING)										
	Noise Level	<45dB @ 1 Meter				<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										
INTERNATIONAL STANDARDS	CE	Safety (IEC/EN62040-1-1), ESD (IEC/EN61000-4-2 L4),RS (IEC/EN61000-4-3 L3),EFT (IEC/EN61000-4-4 L4), Surge (IEC/EN61000-4-5 L4), Conduction (IEC/EN62040-2 C3), Radiation (IEC/EN62040-2 C3), Transportation (ETS300019-2-2 Class 2.3), Protection (IP20 static)										

Specification are subject to change without prior notice.



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