

HE-RT 1K-3K IoT Series

Features

- DSP Control
- Output PF 1.0 provide maximum power in compact size
- Wide Input Range 110-300VAC
- Online efficiency up to 93%, ECO up to 97%
- 125% overload for 3 minutes
- Frequency Converter Mode
- Input THDI < 5%
- Output THDv < 1% linear load
- Programmable outlet group will extend back up time
- Auto Self-Testing System
- OBM, temperature compensated charger
- Automatic detect additional EBM quantity for simplify
- Fan Speed Control
- Low audible noise at typical load
- Multiple Communication Port
- Wide operating environment 0-45 celsius
- Dot matrix LCD support up to 8 languages
- Embedded Ethernet port solution for safe network connection to Cloud with IoT features trend
- WLAN module for IoT connection, wireless connection (WIFI dongle) as optional
- Mobile APP for monitoring, configuration, Support Android/IOS
- USB HID enable monitoring on UPS without software installation
- IP protection level: IP20
- Built-in Over Voltage Cut-Off device (OVCD) for Tough environment, fan lock detection, overtemp, overload warning to enhance the product reliability



HE-RT-1K/2K/3K-IoT and EBM

The New full range HE IoT series, built for the most reliability, purity and power

HE IoT series UPS is the high density, true online double conversion on-line power protection for IT and OT application. Capable of supporting load from 1 to 20kVA in a compact tower and RT (rack-tower) form.

These latest range of UPS comes with future-proof connectivity design having the capability to connect to Cloud seamlessly to allow the monitoring of the UPS online through any internet connected device. To ensure users information is safe and protected, these connectivity is compliant with IEC standard cybersecurity.

- Easy to setup the Safe connection to Cloud
- E2E Cybersecurity and GDPR and IEC 62443 certificated device for IoT
- Connect to Cloud through MQTT protocol (the most widely used to IoT protocol)
- Real time health monitoring on the equipment to enable business continuity and failure prevention
- Remote monitoring, scheduled maintenance and UPS firmware upgrade *launched soon
- Reduce the responsive time on product failure as Cloud push the exact information to end user and service people at the same time.

Product Information

HE-RT 1K-3K IoT Series

MODEL		HE-RT-1K-IoT	HE-RT-1KS-IoT	HE-RT-2K-IoT	HE-RT-2KS-IoT	HE-RT-3K-IoT	HE-RT-3KS-IoT	
CAPACITY	VA/WATT	1KVA/1KW (PF1.0)		2KVA/2KW (PF1.0)		3KVA/3KW (PF1.0)		
INPUT	Voltage Range	110 - 300 VAC						
	Frequency Range	50 Hz ± 10% (Auto sensing)						
	Phase	Single phase with ground						
	Current THDI	<5%						
	Power Factor	≥ 0.99						
	Generator Input	2 x UPS Rating Power						
OUTPUT	Voltage Range	200/208/220/230/240 VAC ± 1%						
	Phase	Single phase with ground						
	Frequency (Synchronized Range)	50 Hz ± 10%						
	Frequency (Battery Mode)	50 Hz ± 0.1%						
	Current Crest Ratio	3:1						
	Harmonic (THDv)	< 1% THD (Linear Load), < 5% THD (100% Non-linear Load)						
	Protection	Short Circuit Protection						
	Output Waform	Pure Sinewave						
	Outlet (3 groups)	main group (4 x Thai Universal) and programable group (4xThai Universal) and bypass group(2xThai Universal)						
	Overload Capacity	Line Mode	Continuous @ 100%~105% ; 5 mins @ 105% ~ 125% ; 30 secs @ 125%~ 150% ; 500 ms @ > 150%					
		Battery Mode	Continuous @ 100%~105% ; 2 mins @ 105% ~ 125% ; 10 secs @ 125%~ 150% ; 500 ms @ > 150%					
EFFICIENCY	AC Mode / Battery Mode	> 89% / >86.5%		> 93% / >89%				
	ECO mode	> 96%		> 97%				
BATTERY	Number of Batteries Per Set	3	Depending on the capacity of external batteries	6	Depending on the capacity of external batteries	6	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%)	3 Hours		3 Hours		3 Hours		
	Charging Current (Max.)	1.5A	8.0A adjustable	1.5A	8.0A adjustable	1.5A	8.0A adjustable	
	Battery Type	Sealed Lead Acid Maintenance Free						
TRANSFER TIME	AC to DC	Zero						
INDICATOR	LCD	Input information: Voltage/Frequency/Ambient Temperature/Utility Present/Utility Lost, Output information: Voltage/Frequency/DC BUS/Utility Present/Utility Lost, Load Information: %Watt%/VA/Current(A)/Overload/Short Circuit/ Load Level, Battery Information: Voltage/Battery Level/Low/Backup time/Remaining time/Charging status/EBM status/ Over charging/Discharging, Mode information: UPS status/Event log/Measurements/Control/Settings/Identify/Mode icon						
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 85.5 x 445 (2U)			438 x 85.5 x 600 (2U)			
WEIGHT	kg	14.3	8 ex.bat	23.3	10.6 ex.bat	26.2	11 ex.bat	
ENVIRONMENT	Operating Environment	0-40° C						
	Relative Humidity	0-95% (NON-CONDENSING)						
	Noise Level	<45dB @ 1 Meter			<50dB @ 1 Meter			
INTERFACE *build-in	RJ45 (Ethernet),WLAN *	Free Mobile App support loS, Android connect to GDPR IEC 62443 compliance Cloud service for IoT solution						
	USB & RS-232 *	Software supports Windows Family, Linux, Sun Solaris, IBM AIX, Compaq True64, SGI IRIX, FressBSD, HP-UX and MAC						
	Others interfaces *	RJ45 for EBM & Li-Ion battery type detection; EPO Dry In & Dry out contract for various external H/W control						
	Intelligent Slot (Option)	For an install an optional SNMP Adapter/ AS400 Relay Card / RS485 / USB						
INTERNATIONAL STANDARDS	CE (EMI/EMS)	Conduction/Radiation:C2, ESD:IEC/EN 61000-4-2, RS: IEC/EN 61000-4-3, EFT: IEC/EN 61000-4-4, Surge: IEC/EN 61000-4-5						

Specification are subject to change without prior notice.



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