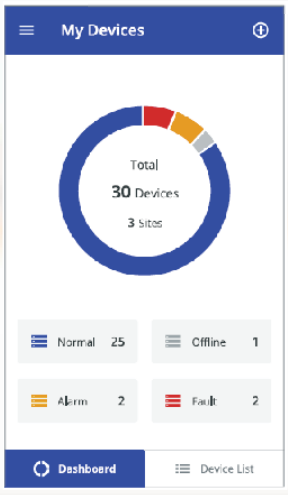
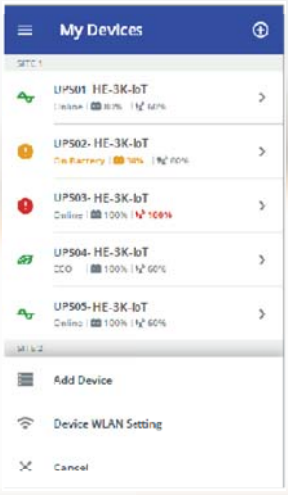
HE 10K-20K IoT-33 Series

SmartPower
Your Smart choice for UPS

Features

- DSP Control
- Parallel Redundancy up to 3 units
- Flexible 3:3,3:1,1:1 input and output wiring (Combo)
- Battery Q'ty adjustable +/- 8/9/10 for 10k, +/- 16/17/18/19/20 for 15k-20k
- Output PF 1.0 provide maximum power in compact size
- Wide Input Range 110-300VAC
- Online efficiency up to 95%, ECO up to 98%
- Frequency Converter Mode
- Input THDI < 5%
- Output THDv < 1% linear load
- Auto Self-Testing System
- Digital charger: 0-13A adjustable
- Automatic detect additional EBM quantity for simplify
- 125% overload for 10 minutes
- Multiple Communication Port
- Wide operating environment 0-50 celsious
- Color touchable LCD with gravity sensor support up to 8 languages
- Mobile APP for monitoring, configuration, Support Android/IOS
- USB HID enable monitoring on UPS without software installation
- Build-in Maintenance Bypass Switch and Cabinet Wheel
- Built-in Over Voltage Cut-Off device (OVCD) for Tough environment,
- IP protection level: IP20
  fan lock detection, overtemp, overload warning to enhance the product reliability
- WLAN module for IoT connection, wireless connection (WIFI dongle) as optional
- Embedded Ethernet port solution for safe network connection to Cloud with IoT features trend





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 capabilty 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 Clound
- E2E Cybersecurity and GDPR and IEC 62443 certificated device for IoT
- Connect to Cloud through MQTT protocal (the most widely used to IoT protocol)
- Real time health monitoring on the equipment to enable business continuity and failure prevention
- Remote monitoring, scheduled manitenance and UPS firmware upgrade *lauched 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 10K-20K IoT-33 Series

Parallel Redundancy N+X

MODEL			HE-Combo-10K-33-IoT	HE-Combo-15K-33-IoT	HE-Combo-20K-33-IoT
CAPACITY	VA/WATT		10KVA/10KW (PF1.0)	15KVA/15KW (PF1.0)	20KVA/20KW (PF1.0)
INPUT	Voltage Range		100-300VAC 1 Phase or 273 - 520VAC 3 Phase		
	Frequency Range		50 Hz ± 10% (Auto sensing)		
	Phase		Single or Three phase selectable		
	Current THDI		<3% @ 100% linear Load, <5% @ 100% non linear load		
	Power Factor		≧0.995		
	Generator Input		2 x UPS Rating Power		
OUTPUT	Voltage Range		220/230/240 VAC (± 1%) 1 Phase or 380/400/415 VAC (± 1%) 3 Phase		
	Phase		Single or Three phase with ground		
	Frequency (Synchonized Range)		50 Hz ± 10%		
	Frequency (Battery Mode)		50 Hz ± 0.1%		
	Current Crest Ratio		3:1		
	Harmonic (THDv)		< 1% THD (@ 100% Linear Load), < 5% THD (@ 100% Non-linear Load)		
	Protection		Short Circuit Protection		
	Output Waform		Pure Sinewave		
	Outlet		Terminal Type		
	Overload Capacity	Line Mode	Continuous @ 100%~105% ; 10 mins @ 105% ~ 125% ; 1 mins @ 125%~ 150% ; 500 ms @ > 150%		
		Battery Mode	Continuous @ 100%~105% ; 1 mins @ 105% ~ 125% ; 30 secs @ 125%~ 150% ; 500 ms @ > 150%		
EFFICIENCY	AC Mode / Battery Mode		> 95% / >92%	> 96% / >94%	> 96% / >94%
	ECO mode		> 98%	> 98.8%	> 99%
BATTERY	Number of Batteries Per String		16-20 adjustable	32-40 adjustable	
	Battery Capacity (Ahr)		Depending on the capacity of external batteries		
	Backup Time (depend on load)				
	Recharge Time (to 90%)				
	Charging Current (Max.)		13A 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		350x890x650		
WEIGHT	kg		96 ex.bat	129.4 ex.bat	139 ex.bat
ENVIRONMENT	Operating Environment		0-50° C		
	Relative Humidity		0-95% (NON-CONDENSING)		
	Noise Level		<55dB @ 1 Meter	<55dB @ 1 Meter	
INTERFACE *build-in	RJ45 (Ethernet),WLAN *		Free Mobile App support IoS, 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		
	Inteligent Slot (Option)		For an install an optional SNMP Adapter/ AS400 Relay Card / RS485 / USB		
INTERNATIONAL STANDARDS	CE		Low Voltage Directive (Safety): EN62040-1-1 EMC Directive: EN62040-2, EN61000-2-2, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8		

Specification are subject to change without prior notice.

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