

# HERCULES COMBO IoT Series

## 10-20 kVA

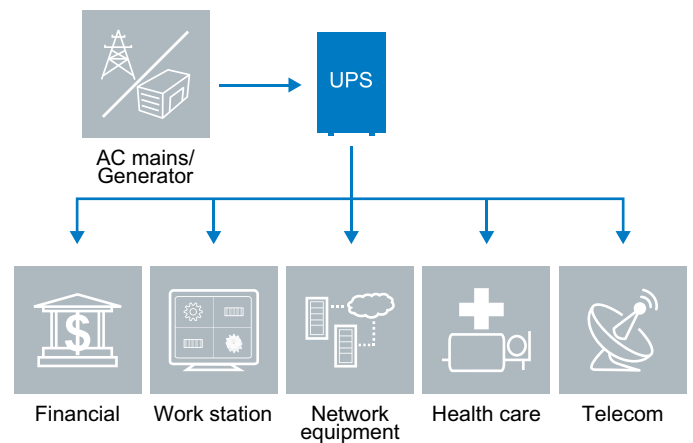


- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Low audible noise at typical load
- Dot matrix LCD support up to 10 languages for easy installation and service. 10-20K 3-3 model support Color touchable LCD display with gravity sensors
- Embedded Ethernet port solution provide safe network connection to Cloud which will meet the increasing IoT trend
- WLAN module for IoT connection
- Mobile APP for monitoring, configuration. Support Android/iOS
- USB HID enable monitoring on UPS without software installation
- Dry contactor for industrial condition
- Upgraded network card compliance with IEC standard cybersecurity

### Key features

- True double-conversion design with high adaptability to harsh mains conditions
- Real PF 1 can provide more power in same space
- High efficiency results in energy saving
- Adjustable charging current and flexible battery configuration
- Optimized charging method to expand battery life time
- 10-20K 3-3 model can be configure as 3-1 or 1-1 model to meet utility and load wiring
- 10-20K 3-3 model can be configure as single source input or dual source input for utility and bypass

### Typical application



## New full range double conversion UPS

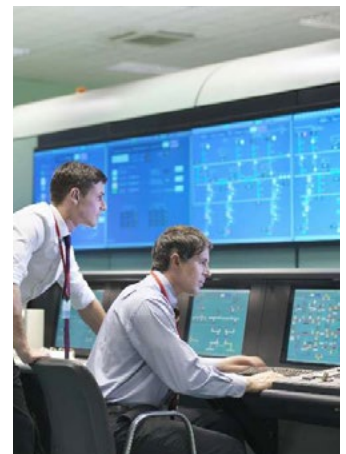
High density, true double conversion on-line power protection for IT (Information technology) and OT (operation technology) applications. Capable of supporting loads from 1 to 20kVA in a compact tower form.

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.

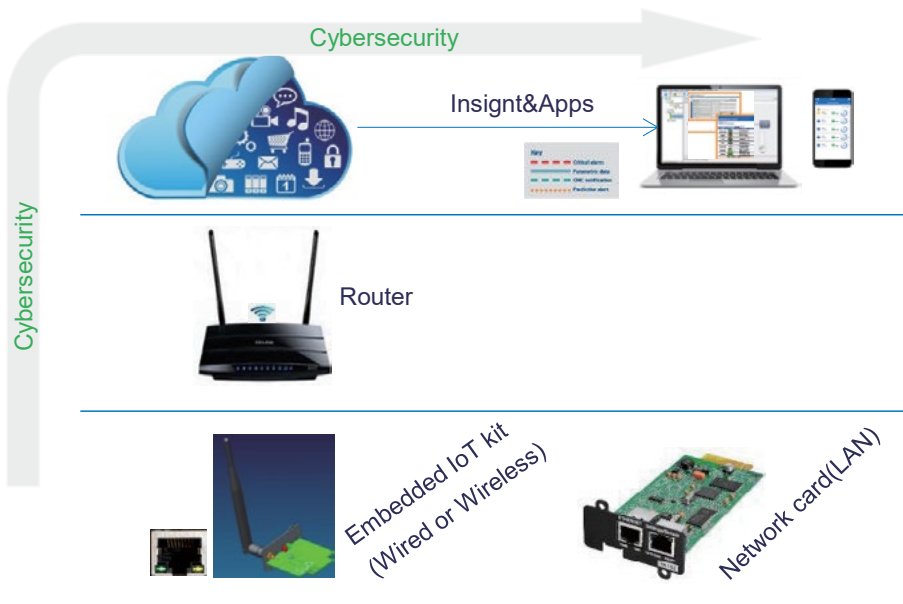


## Network connected and data to cloud

- Easy to setup the Safe connection to Cloud
- Connect to Cloud through MQTT protocol (the most widely used IoT protocol)
- Real time health monitoring on the equipment to enable business continuity and failure prevention
- Remote monitoring, scheduled maintenance and UPS firmware upgrade \*
- Improve the data visibility to the service people and end user
- Reduce the responsive time on product failure as Cloud push the exact information to end user and service people at the same time
- Create value added service opportunities based on digitalization transformation



\* Will be launched soon



# HERCULES COMBO IOT Series

## SPECIFICATION

MODEL	HE-COMBO-IOT 20KS 3-3	
CAPACITY	VA/WATT	20kVA/20kW
INPUT	Voltage Range	380 Vac/400 Vac/415Vac (± 20%)
	Frequency Range	50Hz/60Hz (± 10%)
	Phase	3 Phase
	Current THDI	<5%
	Power Factor	0.995
OUTPUT	Voltage Range	380 Vac/400 Vac/415Vac (± 1%)
	Phase	3 Phase
	Maximum PF	1
	Frequency <small>(Synchronized Range)</small>	50Hz/60Hz
	Frequency (Battery Mode)	50/60Hz ± 0.2%
	Current Crest Ratio	3:1
	Harmonic Distortion	≤ 1 % THD (Linear Load)
	Protection	Short Circuit Protection & Overload Protection
	Output Waform	Pure Sinewave
	Overload	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125%<load≤150% for 1 minutes
Outlet	Terminal Block	
EFFICIENCY	DC to AC Mode at full load	> 92%
	ECO mode	> 99%
BATTERY	Number of Batteries Per Set	40
	Battery Capacity (Ahr)	12V/(7/9)Ahr
	Backup Time <small>(depend on load)</small>	>15 min
	External battery (Max.)	6
	Recharge Time (to 90%)	3 Hours
	Charging Current (Max.)	2A (Expandable to 13A)
	Rated Battery Voltage	480 Vdc
	Battery Type	Sealed Lead Acid Maintenance Free
TRANSFER TIME	AD to DC	Zero
Parallel	Parallel (optional)	up to 4
INDICATOR	LED & LCD	For LED: Bypass mode, Line mode, Battery Mode, HE mode, Fault mode, General alarm For LCD: UPS mode, Load percentage, Battery status, Bypass status, Line status, Output status , Energy flow chart, System time, Menu icon, Alarm area, 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	350 x 890 x 650
WEIGHT	kg	62 ex.bat
ENVIRONMENT	Operating Environment	0-45° C
	Relative Humidity	0-95% (NON-CONDENSING)
	Noise Level	<55dB @ 1 Meter
INTERFACE	USB / 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 C
	QMS	Certified Quality Management System ISO9001
	EMS	Certified Environmental Management System ISO14001



เลขที่. 1291 1291-1-2553  
เลขที่. 1291 1291-2-2553  
เลขที่. 1291 1291-3-2555



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