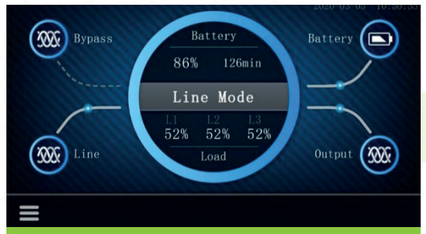
VFI 10K-20K ICT/ ICR IoT 3/1 – 3/3

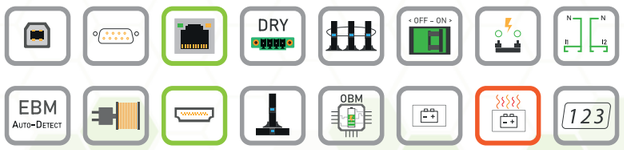
Complete Solution: Incl. 2 BP and MBS/PDU

Please Note: min. 2 BP per UPS are required to operate!

- **IoT Solution** with the PW-WinPower App
- **Output Power Factor 1.0**
- **EBM Auto-Detection** for easy setup of Ext. Battery Packs.
- Optimized Battery Management (**OBM**)
- **Parallel Operation**, up to 3 units
- Includes an **Intelligent Slot**
- Internet Options: Ethernet Cable or WLAN Dongle



Unique, modern Touch-Panel



This Three Phase UPS series utilizes double conversion technology and features Unity Power Factor, while making use of the IoT-Cloud monitoring feature, just like the smaller models. Multiple optional accessories such as external battery packs, communication cards and a WLAN adapter enhance the functionality of the UPS, and up to 3 units can be operated in parallel. It also features 2 modern functions: EBM Auto-Detection and the Optimized Battery Management (OBM). It also features a very advance Touch-Panel.

General Features	ICT	ICR	ICT	ICR	ICT	ICR	ICT	ICR
Power Capacity	10000VA/ 10000W				15000VA/ 15000W		20000VA/ 20000W	
Output Power Factor	>0.95 at 3ph | >0.995 at 1ph		> 0.995					
LINE Mode Full Load	95.0%							
Charger	1A-12A | Default: [2A]		1A-13A | Default: [2A] for 10k/ 20k, [1.4A] for 15k					
Parallel Work (Units)	3							
Input Specifications	**Values**							
Input Phase	3 or 1		3					
Input Voltage Range	160-275 VAC = 100% Load | 110-160 VAC derated to 50% Load		273-520 VAC = 100% Load | 173-273 VAC derated to 50% Load					
Frequency (Synchronized Range)	40Hz - 70Hz							
Input Type	Terminal							
Output Specifications	**Values**							
Nominal Output Voltage	220/230/240 VAC		220/230/240 VAC or 380/400/415 VAC					
Voltage Regulation	+/- 1%							
Frequency (Battery Mode)	+/- 0.1Hz							
Outlets	Terminal							
Battery Specifications	**Values**							
Batteries	20 x 12V/ 9Ah		2 x 10 x 12V/ 9Ah		2 x 20 x 12V/ 7Ah		2 x 20 x 12V/ 9Ah	
DC Voltage	20 x 12V				40 x 12V			
Recharge Time	3h to 90%							
Transfer Time [AC to Battery]	0 ms							
Transfer Time [Inverter to Bypass]	0 ms							

Cloud Monitoring

What is the Internet of Things?

The Internet of Things (IoT) is a system made up of physical devices connected by the internet, capable of accumulating and sharing data across the network. Just like our smartphones, nowadays we can take selfies and save them on the cloud, we can check our E-Mail while we are on vacation, and we can monitor our route just by looking at our integrated GPS application.

This is all possible thanks to the device´s **physical capability of connecting to the internet**. In similar ways, IoT works like this in all the different devices and business branches. At our home or at the office, the importance of **connectivity, accessibility and security is almost a must nowadays**!

Since 1990, the Internet of Things has been exploding. Smart devices and cutting-edge machines that use wireless technology to talk to each other (and to us), have been growing at a breathtaking pace – from 2 billion devices in 2006 to a projected 100 billion in 2022. Laptops, smartwatches, autonomous robotics, IP controlled traffic lights, autonomous cars, data security and accessibility, and finally, smart home living. **The internet of things, is the future**.

The ICT/ICR IoT series is a professional and versatile online UPS with double conversion technology. Its IoT feature lets it send important information to a secured cloud when connected with the internet. This information can be monitored and accessed securely in real-time with help of our PowerWalker Winpower application.

If the UPS is connected to the internet, through an ethernet cable or through a wireless connection with the WLAN Dongle, the UPS will automatically send all information to the **Microsoft Azure Cloud**. This information can be later accessed with the application for remote monitoring. Both, sending, and receiving of the information is securely encrypted for information protection. The app itself is **GDPR compliance certified, by TÜV Rheinland**, a very well-known German independent testing company focused on safety, efficiency and quality.