

VFI ICR IoT DNV (1k-3k)



Marine-grade online UPS for critical applications

- True PF 1 in 2U height cabinet includes built-in battery pack
- Online mode efficiency up to 93% lowers energy loss and operating costs, ECO mode efficiency up to 97%
- DNV certification validates compliance with marine-class requirements
- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance product reliability
- UPS & EBM battery pack easy replacement and hot-swappable
- Rack/Tower dual set-up with rotatable Dot matrix LCD support multi-languages
- Built-in Ethernet port for cloud connection
- Automatic detect additional EBM
- Programmable outlet group
- Generator compatible



*Filter box sold separately

Applicable Sector



Industrial



Offshore



Marine

Features



Hot-Swappable



Tower or Rack



EBM-Auto
Detection



Generator
Compatible



Battery Pack
Available



Ethernet
Port

Front Panel

1K



2K



3K



Rear Panel



Model	VFI 1k ICR IoT DNV	VFI 2k ICR IoT DNV	VFI 3k ICR IoT DNV
Power Capacity	1000 VA / 1000 W	2000 VA / 2000 W	3000 VA / 3000 W
Input			
Input Voltage Range	160 - 300 V 100% load, 110 - 160 V derating to 50% load linearly		
Frequency Range	40 ~ 70 Hz		
Input Wiring	Single Phase with ground		
Input PF	0.99		
Current Distortion (THDi)	< 5% @ full load		
Output			
Output Power Factor	1		
Nominal Output Voltage	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)		
Voltage Regulation	± 1%		
Frequency Range (Battery Mode)	0.2 Hz		
Current Crest Ratio	3 : 1		
Voltage Distortion (THDv)	≤1% @ 100% linear load, ≤5% @ 100% non-linear load		
Output Waveform	Pure Sine Wave		
Parallel Operation	No		
Efficiency			
Inverter Mode	89% max	93% max	93% max
ECO Mode	96%	97%	
Transfer Time			
Battery Mode to Inverter Mode	0 ms		
Inverter Mode to Bypass Mode	4 ms		
ECO Mode to Battery Mode	< 10 ms		
Dimension			
UPS: (D×W×H) [mm]	445 × 438 × 85.5		600 × 438 × 85.5
EBM (External Battery Module): (D×W×H) [mm]	445 × 438 × 86		608 × 438 × 86
Environment			
Operating Temperature	0 ~ 40°C		
Noise Level	< 45dB @ 1 Meter		< 50dB @ 1 Meter
Interface			
Display	DOT-MATRIX LCD		
RS232/USB	Yes, USB HID		
External Slot	Yes, 1 slot for network card, Modbus card or dry contact card		
Dry Contact	Dry in and dry out, programmable		
Emergency Power Off	Yes		
Ethernet Port	Build in ethernet port support direct cloud connection or local network connection		
W-LAN Connection	Optional		
Certification	CE; IEC62619 for lithium battery; IEC62040 for UPS; DNV rules for classification		