Certificate no.:
TAE0000562

TYPE APPROVAL CERTIFICATE

This is to certify:

that the UPS

with type designation(s)
PowerWalker VFI 1000 ICR IoT DNV, PowerWalker VFI 2000 ICR IoT DNV, PowerWalker VFI 3000 ICR IoT DNV, PowerWalker BP I36R-6x9Ah, PowerWalker BP I72R-12x9Ah, Filter Box for ICR IoT DNV, Vertical Installation Kit

issued to
BlueWalker GmbH
B16174, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2026-01-21**
This Certificate is valid until **2031-01-20**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Qiang William Guo**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

UPS Unit Type PowerWalker VFI 1000 ICR IoT DNV with EBM (PowerWalker BP I36R-6x9Ah) with Marine Filter (Filter Box for ICR IoT DNV) and Vertical Installation Kit
UPS Unit Type PowerWalker VFI 2000 ICR IoT DNV with EBM (PowerWalker BP I72R-12x9Ah) with Marine Filter (Filter Box for ICR IoT DNV) and Vertical Installation Kit
UPS Unit Type PowerWalker VFI 3000 ICR IoT DNV with EBM (PowerWalker BP I72R-12x9Ah) with Marine Filter (Filter Box for ICR IoT DNV) and Vertical Installation Kit

Model name	PowerWalker VFI 1000 ICR IoT DNV	PowerWalker VFI 2000 ICR IoT DNV	PowerWalker VFI 3000 ICR IoT DNV
Power rating	1KVA/1KW	2KVA/2KW	3KVA/3KW
Input performance	160-300VAC,50/60Hz		
Output performance	200/208/220/230/240VAC,50/60Hz		
Maximum PF	PF = 1		
EBM(Battery units)	36VDC/9AH	72VDC/9AH	72VDC/9AH
Maximum EBM quantity : 4			
IP rating	IP20		
Operating temperature/ Derating	0-40ºC (40-50ºC derating to 80%, 50-55ºC derating to 60%)		

Note: please refer to the user manual for more information.

Application/Limitation

Environmental location class according to DNV-CG-0339

Temperature class	A
Humidity class	A
Vibration class	A*(with vibration kit)
EMC class	B*(with filter Box)
Enclosure class	A(IP20)

*The vibration kit and filter box shall be provided when installed on board ,

The output current will be decreased if operating temperature more than 40 degrees,

Protection degree: IP20. End user responsible for correct IP protection according to location and use,

The instruction and user manual from maker shall be observed and followed when installed on board.

Compass safe distance test results refer to IEC60945:2002/COR.1:2008 and DNV-CG-0339 AUG.2021

	PowerWalker VFI 1000 ICR IoT DNV	PowerWalker VFI 2000 ICR IoT DNV	PowerWalker VFI 3000 ICR IoT DNV
Max standard compass distance	1250mm	1550mm	1650mm
Max standard other compass distance (steering compass)	900mm	1200mm	1200mm

Type Approval documentation

Tests carried out

Safe/type test in accordance with DNV Rule Pt 4 Ch 8 Sec 7 Table 5, edition July 2025, i.e. IEC62040-3 ;
Environmental test in accordance with DNV-CG-0339 Aug.2021, i.e. electrical power supply failure, power supply variation, high voltage, insulation resistance, vibration, dry heat, damp heat, cold, IP, EMC, compass safe distance, Acoustic noise test.

Marking of product

BlueWalker Part number – UPS input voltage and max input current – UPS output voltage, max output current and output power in VA and Watts.

Manufactured by:

Lian Zheng Electronic (Shenzhen) Co.,Ltd,
No.4, Liufang Road, 67 Block, Xin'an Street Office, Baoan District, Shenzhen City, Guangdong Province 518101, China

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with

and that no alterations are made to the product design or choice of materials.
The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate."

END OF CERTIFICATE