

## EU DECLARATION OF CONFORMITY



It is hereby declared that following designated product:

Product Type: DC-DC Converter

Model No: See model list

Product description: See model list

**Complies with** the essential protection requirements of the Electromagnetic Compatibility (Directive 2014/30/EU), Restriction of the Certain Hazardous Substances in electrical and electronic equipment (Directive 2011/65/EU) and their amendments (ROHS Directive (EU)2015/863).

**This declaration applies to all specimens manufactured identical to the samples submitted for testing/evaluation.**

Assessment of compliance of the product with the requirements relating to Directive 2014/30/EU and Directive 2011/65/EU was performed by Mornsun based on the following standards:

EN 62368-1:2020+A11:2020  
EN 55032:2015+A11:2020  
EN 55035:2017+A11:2020  
EN IEC 63000:2018

An additional delta evaluation of the above-listed equipment concerning the differences between the requirements of the harmonized standard EN 62368-1:2014 (with all applicable corrections) and EN IEC 62368-1:2020, and IEC 62368-1:2018 has been performed and concludes that the safety objectives of the low-voltage targets (2014/35/EU) are met.

This declaration is the responsibility of the manufacturer:

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO., LTD.

No.8,Nanyun Road 4,Huangpu district,Guangzhou, GuangDong,510670, PR China.

Authorised person signing for the company:

Naiqing Xie Regulation Compliance Manager Of MORNSUN

*Name in block letters & position in the company*

Guangzhou, 24<sup>th</sup> December. 2023

*Place & date*

*Naiqing Xie*

*Legally valid signa*

**Model list:**

Input voltage: 40-60VDC Input current: 21A.				
Part number	Output voltage	Output current	Output power	Transformer type
VCB4810QBO-600WR3A\$&	10.8	50A	540W	14271539(A/O)
VCB4810QBO-600WR3D\$&	10.9		545W	
VCB4812QBO-600WR3A\$&	12		600W	
VCB4812QBO-600WR3D\$&	12.1		605W	
VCB4810QBO-800WR3A\$&	10.8	66.6A	719W	
VCB4810QBO-800WR3D\$&	10.9		726W	
VCB4812QBO-800WR3A\$&	12		799W	
VCB4812QBO-800WR3D\$&	12.1		806W	

Note: All VCB48\_QBO-600/800WR3A(D)-N\* product models differ in transformer, product name and output voltage, but are identical in circuit and structure. \$=null or "-N". When \$=null , it indicates positive logic. When \$= "-N", it indicates negative logic. & means blank or any combination of letters or digits form 1 to 3 for marketing purpose.

**Model difference:**

All models are identical in electrical, mechanical, physical construction except for transformer, model name, the voltage and current of output rating.

The differences of VCB48\_QBO-600/800WR3A(D)-N series products are described as follows:

1. Switch tubes TR71, TR72, TR73, TR74: The whole series of devices can withstand the same 80V voltage. The maximum current of the body diode of 600W series is 141A. The maximum current of the body diode of 800W series is 131A.
2. All models are identical in circuit, principle and transformer. The variation of different output parameters of the product is realized by software.