

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 Low Voltage Directive (Directive 2014/35/EU), 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 2014/35/EU 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, 19th Feb. 2024

Place & date

Legally valid signa

Model list:

Input voltage: 36-75VDC Input current: 6A(MAX)				
Part number	Output voltage	Output current	Output power	Transformer type
VCF4848EBO-50W(F)R3-N*	48V	1.04A	50W	12010154(A/0)(A/0,A/1.....B/9)
VCF4848EBO-75W(F)R3-N*		1.56A	75W	
VCF4848EBO-100W(F)R3-N*		2.08A	100W	
VCF4848EBO-120W(F)R3-N*		2.5A	120W	
VCF4848EBO-150W(F)R3-N*		3.125A	150W	

NOTE:VCF4848EBO-50/75/100/120/150(F)R3-N* Product model There are differences in product name and output current, but the circuit and structure are the same.-N indicates negative logic, *= empty or *=1-3 letters A-Z, when *= empty for standard models, when *=1-3 letters A-Z for different derived models.

Model difference:

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

- 1.Output filter inductance : all series use the same magnetic core.
- 2.Transformer:all series adopt the same magnetic core,and the turns ratio of primary and secondary sides is 5:12;the turns ratio of Auxiliary winding is 2:2.
- 3.Rectification method:The whole series of devices adopt Diode rectification.
- 4.The main switch tube of 50W uses a single type of MOS tubes. The main switch tube of 75W/100W/120W/150W use another type of MOS tubes.
- 5.the whole series of sub-side rectification is diode rectification, of which 50W uses a type of diode, 75W/100W/120W uses a type diode, 150W uses a type diode.
- 6.Difference of schematic diagram:the Whole series adopts the same control level circuit and power level circuit.
- 7.Optocouplers and safety capacitors are all of the same model.
- 8.VCF4848EBO-50/75/100/120/150WR3-N and VCF4848EBO-50/75/100/120/150WFR3-N are the same except that VCF4848EBO-50/75/100/120/150WR3-N has a heat sink.