

EU DECLARATION OF CONFORMITY



It is hereby declared that following designated product:

Product Type: AC-DC Converter

Model Number: 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 is based on the following standards:

EN IEC 62368-1:2020+A11:2020
IEC 62368-1:2018
EN 55032:2015+A11:2020
EN 55035:2017+A11:2020
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
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 China

Authorised person signing for the company:

Naiqing Xie Regulation Compliance Manager Of MORNSUN

Name in block letters & position in the company

Guangzhou, 25th April. 2025

Place & date

Legally valid signature

Model list:

Model name	Output voltage (Vdc)	Max. Output current (A)	Max. Output power (W)	Transformer model
LOF450-20B12 LOF450-20B12-C LOF450-20B12-CF LOF450-20B12-ZZZ LOF450-20B12-C-ZZZ LOF450-20B12-CF-ZZZ LOF450-20B12E LOF450-20B12E-C LOF450-20B12E-CF LOF450-20B12E-ZZZ LOF450-20B12E-C-ZZZ LOF450-20B12E-CF-ZZZ	12	Air cooling: 20.80 25CFM: 33.30	Air cooling: 249.6 25CFM: 399.6	51500723 (A/O-A/9, B/O-B/9)
LOF550-20B12 LOF550-20B12-C LOF550-20B12-CF LOF550-20B12-ZZZ LOF550-20B12-C-ZZZ LOF550-20B12-CF-ZZZ LOF550-20B12E LOF550-20B12E-C LOF550-20B12E-CF LOF550-20B12E-ZZZ LOF550-20B12E-C-ZZZ LOF550-20B12E-CF-ZZZ	12	Air cooling: 26.70 (for LOF550-20B12, LOF550-20B12- ZZZ, LOF550-20B12E, LOF550-20B12E-ZZZ) Air cooling: 25.80 (for LOF550-20B12-C, LOF550-20B12-C- ZZZ, LOF550-20B12E- C, LOF550-20B12E-C- ZZZ) 25CFM: 41.60	Air cooling: 320.4 (for LOF550-20B12, LOF550-20B12-ZZZ, LOF550-20B12E, LOF550-20B12E- ZZZ) Air cooling: 309.6 (for LOF550-20B12- C, LOF550-20B12-C- ZZZ, LOF550- 20B12E-C, LOF550- 20B12E-C- ZZZ) 25CFM: 499.2	51500723 (A/O-A/9, B/O-B/9)
LOF450-20B15 LOF450-20B15-C LOF450-20B15-CF LOF450-20B15-ZZZ LOF450-20B15-C-ZZZ LOF450-20B15-CF-ZZZ LOF450-20B15E LOF450-20B15E-C LOF450-20B15E-CF LOF450-20B15E-ZZZ LOF450-20B15E-C-ZZZ LOF450-20B15E-CF-ZZZ	15	Air cooling: 16.70 25CFM: 26.70	Air cooling: 250.5 25CFM: 400.5	51500683 (A/O-A/9, B/O-B/9)
LOF550-20B15 LOF550-20B15-C LOF550-20B15-CF LOF550-20B15-ZZZ LOF550-20B15-C-ZZZ LOF550-20B15-CF-ZZZ	15	Air cooling: 21.30 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 20.70 (for LOF550-20B15- C,	Air cooling: 319.5 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E- ZZZ) Air cooling: 310.5	51500683 (A/O-A/9, B/O-B/9)

LOF550-20B15E LOF550-20B15E-C LOF550-20B15E-CF LOF550-20B15E-ZZZ LOF550-20B15E-C-ZZZ LOF550-20B15E-CF-ZZZ		LOF550-20B15-C-ZZZ, LOF550-20B15E-C , LOF550-20B15E-C-ZZZ) 25CFM: 33.30	(for LOF550-20B15-C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C , LOF550-20B15E-C-ZZZ) 25CFM: 499.5	
LOF450-20B18 LOF450-20B18-C LOF450-20B18-CF LOF450-20B18-ZZZ LOF450-20B18-C-ZZZ LOF450-20B18-CF-ZZZ LOF450-20B18E LOF450-20B18E-C LOF450-20B18E-CF LOF450-20B18E-ZZZ LOF450-20B18E-C-ZZZ LOF450-20B18E-CF-ZZZ	18	Air cooling: 13.9 25CFM: 22.2	Air cooling: 250.2 25CFM: 399.6	51503133 (A/0-A/9, B/0-B/9)
LOF550-20B18 LOF550-20B18-C LOF550-20B18-CF LOF550-20B18-ZZZ LOF550-20B18-C-ZZZ LOF550-20B18-CF-ZZZ LOF550-20B18E LOF550-20B18E-C LOF550-20B18E-CF LOF550-20B18E-ZZZ LOF550-20B18E-C-ZZZ LOF550-20B18E-CF-ZZZ	18	Air cooling: 17.8 25CFM: 27.8	Air cooling: 320.4 25CFM: 500.4	51503133 (A/0-A/9, B/0-B/9)
LOF450-20B19 LOF450-20B19-C LOF450-20B19-CF LOF450-20B19-ZZZ LOF450-20B19-C-ZZZ LOF450-20B19-CF-ZZZ LOF450-20B19E LOF450-20B19E-C LOF450-20B19E-CF LOF450-20B19E-ZZZ LOF450-20B19E-C-ZZZ LOF450-20B19E-CF-ZZZ	19	Air cooling: 13.2 25CFM: 21.1	Air cooling: 250.8 25CFM: 400.9	51503133 (A/0-A/9, B/0-B/9)

LOF550-20B19 LOF550-20B19-C LOF550-20B19-CF LOF550-20B19-ZZZ LOF550-20B19-C-ZZZ LOF550-20B19-CF-ZZZ LOF550-20B19E LOF550-20B19E-C LOF550-20B19E-CF LOF550-20B19E-ZZZ LOF550-20B19E-C-ZZZ LOF550-20B19E-CF-ZZZ	19	Air cooling: 16.8 25CFM: 26.3	Air cooling: 319.2 25CFM: 499.7	51503133 (A/O-A/9, B/O-B/9)
LOF450-20B24 LOF450-20B24-C LOF450-20B24-CF LOF450-20B24-ZZZ LOF450-20B24-C-ZZZ LOF450-20B24-CF-ZZZ LOF450-20B24E LOF450-20B24E-C LOF450-20B24E-CF LOF450-20B24E-ZZZ LOF450-20B24E-C-ZZZ LOF450-20B24E-CF-ZZZ	24	Air cooling: 10.50 25CFM: 18.75	Air cooling: 252.0 25CFM: 450.0	51500688 (A/O-A/9, B/O-B/9)
LOF550-20B24 LOF550-20B24-C LOF550-20B24-CF LOF550-20B24-ZZZ LOF550-20B24-C-ZZZ LOF550-20B24-CF-ZZZ LOF550-20B24E LOF550-20B24E-C LOF550-20B24E-CF LOF550-20B24E-ZZZ LOF550-20B24E-C-ZZZ LOF550-20B24E-CF-ZZZ	24	Air cooling: 13.40 (for LOF550-20B24, LOF550-20B24-ZZZ, LOF550-20B24E, LOF550-20B24E-ZZZ) Air cooling: 12.90 (for LOF550-20B24-C, LOF550-20B24-C-ZZZ, LOF550-20B24E-C, LOF550-20B24E-C-ZZZ) 25CFM: 22.90	Air cooling: 321.6 (for LOF550-20B24, LOF550-20B24-ZZZ, LOF550-20B24E, LOF550-20B24E-ZZZ) Air cooling: 309.6 (for LOF550-20B24-C, LOF550-20B24-C-ZZZ, LOF550-20B24E-C, LOF550-20B24E-C-ZZZ) 25CFM: 549.6	51500688 (A/O-A/9, B/O-B/9)

LOF450-20B48 LOF450-20B48-C LOF450-20B48-CF LOF450-20B48-ZZZ LOF450-20B48-C-ZZZ LOF450-20B48-CF-ZZZ LOF450-20B48E LOF450-20B48E-C LOF450-20B48E-CF LOF450-20B48E-ZZZ LOF450-20B48E-C-ZZZ LOF450-20B48E-CF-ZZZ	48	Air cooling: 5.30 25CFM: 9.40	Air cooling: 254.4 25CFM: 451.2	51500689 (A/O-A/9, B/O-B/9)
LOF550-20B48 LOF550-20B48-C LOF550-20B48-CF LOF550-20B48-ZZZ LOF550-20B48-C-ZZZ LOF550-20B48-CF-ZZZ LOF550-20B48E LOF550-20B48E-C LOF550-20B48E-CF LOF550-20B48E-ZZZ LOF550-20B48E-C-ZZZ LOF550-20B48E-CF-ZZZ	48	Air cooling: 6.70 (for LOF550-20B48, LOF550-20B48-ZZZ, LOF550-20B48E, LOF550-20B48E-ZZZ) Air cooling: 6.50 (for LOF550-20B48-C, LOF550-20B48-C-ZZZ, LOF550-20B48E-C, LOF550-20B48E-C-ZZZ) 25CFM: 11.46	Air cooling: 321.6 (for LOF550-20B48, LOF550-20B48-ZZZ, LOF550-20B48E, LOF550-20B48E-ZZZ) Air cooling: 312.0 (for LOF550-20B48-C, LOF550-20B48-C-ZZZ, LOF550-20B48E-C, LOF550-20B48E-C-ZZZ) 25CFM: 550.0	51500689 (A/O-A/9, B/O-B/9)
LOF450-20B54 LOF450-20B54-C LOF450-20B54-CF LOF450-20B54-ZZZ LOF450-20B54-C-ZZZ LOF450-20B54-CF-ZZZ LOF450-20B54E LOF450-20B54E-C LOF450-20B54E-CF LOF450-20B54E-ZZZ LOF450-20B54E-C-ZZZ LOF450-20B54E-CF-ZZZ	54	Air cooling: 4.63 25CFM: 8.33	Air cooling: 250.0 25CFM: 449.8	51503132 (A/O-A/9, B/O-B/9)
LOF550-20B54 LOF550-20B54-C LOF550-20B54-CF LOF550-20B54-ZZZ LOF550-20B54-C-ZZZ LOF550-20B54-CF-ZZZ LOF550-20B54E LOF550-20B54E-C LOF550-20B54E-CF	54	Air cooling: 5.75 25CFM: 10.20	Air cooling: 310.5 25CFM: 550.8	51503132 (A/O-A/9, B/O-B/9)

LOF550-20B54E-ZZZ LOF550-20B54E-C-ZZZ LOF550-20B54E-CF-ZZZ				
LOF450-20BXXX LOF450-20BXXX-C LOF450-20BXXX-CF LOF450-20BXXX-ZZZ LOF450-20BXXX-C-ZZZ LOF450-20BXXX-CF- ZZZ LOF450-20BXXXE LOF450-20BXXXE-C LOF450-20BXXXE-CF LOF450-20BXXXE-ZZZ LOF450-20BXXXE-C-ZZZ LOF450-20BXXXE-CF- ZZZ	11.4-12.6	Air cooling: 0.00-20.80 25CFM: 0.00-33.30	Air cooling: 249.6 25CFM: 399.6	51500723 (A/O-A/9, B/O-B/9)
	14.3-15.8	Air cooling: 0.00-16.70 25CFM: 0.00-26.70	Air cooling: 250.5 25CFM: 400.5	51500683 (A/O-A/9, B/O-B/9)
	17.1-19.9	Air cooling: 0.00-13.90 25CFM: 0.00-22.20	Air cooling: 250.2 25CFM: 399.6	51503133 (A/O-A/9, B/O-B/9)
	17.1-19.9	Air cooling: 0.00-13.20 25CFM: 0.00-21.10	Air cooling: 250.8 25CFM: 400.9	51503133 (A/O-A/9, B/O-B/9)
	22.8-25.2	Air cooling: 0.00-10.50 25CFM: 0.00-18.75	Air cooling: 252.0 25CFM: 450.0	51500688 (A/O-A/9, B/O-B/9)
	45.6-50.4	Air cooling: 0.00-5.30 25CFM: 0.00-9.40	Air cooling: 254.4 25CFM: 451.2	51500689 (A/O-A/9, B/O-B/9)
	51.3-56.7	Air cooling: 0.00-4.63 25CFM: 0.00-8.33	Air cooling: 250.0 25CFM: 449.8	51503132 (A/O-A/9, B/O-B/9)
LOF550-20BXXX LOF550-20BXXX-C LOF550-20BXXX-CF LOF550-20BXXX-ZZZ LOF550-20BXXX-C-ZZZ LOF550-20BXXX-CF-ZZZ LOF550-20BXXXE LOF550-20BXXXE-C LOF550-20BXXXE-CF LOF550-20BXXXE-ZZZ LOF550-20BXXXE-C-ZZZ LOF550-20BXXXE-CF-ZZZ	11.4-12.6	Air cooling: 0.00-26.70(for LOF550-20B12, LOF550-20B12-ZZZ, LOF550-20B12E, LOF550-20B12E-ZZZ) Air cooling: 0.00-25.80 (for LOF550-20B12-C, LOF550-20B12-C-ZZZ, LOF550-20B12E-C, LOF550-20B12E-C-ZZZ) 25CFM: 0.00-41.60	Air cooling: 320.4 (for LOF550-20B12, LOF550-20B12-ZZZ, LOF550-20B12E, LOF550-20B12E-ZZZ) Air cooling: 309.6 (for LOF550-20B12-C, LOF550-20B12-C-ZZZ, LOF550-20B12E-C, LOF550-20B12E-C-ZZZ) 25CFM: 499.2	51500723 (A/O-A/9, B/O-B/9)
	14.3-15.8	Air cooling: 0.00-21.30 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 0.00-20.70 (for LOF550-20B15-	Air cooling: 319.5 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 310.5 (for LOF550-20B15-C,	51500683 (A/O-A/9, B/O-B/9)

		C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 0.00-33.30	LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 499.5	
	17.1-19.9	Air cooling: 0.00-17.80 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 0.00-17.80 (for LOF550-20B15-C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 0.00-27.80	Air cooling: 320.4 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 320.4 (for LOF550-20B15-C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 499.7	51503133 (A/O-A/9, B/O-B/9)
	17.1-19.9	Air cooling: 0.00-21.30 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 0.00-16.8 (for LOF550-20B15-C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 0.00-33.30	Air cooling: 319.5 (for LOF550-20B15, LOF550-20B15-ZZZ, LOF550-20B15E, LOF550-20B15E-ZZZ) Air cooling: 319.2 (for LOF550-20B15-C, LOF550-20B15-C-ZZZ, LOF550-20B15E-C, LOF550-20B15E-C-ZZZ) 25CFM: 499.5	51503133 (A/O-A/9, B/O-B/9)
	22.8-25.2	Air cooling: 0.00-13.40 (for LOF550-20B24, LOF550-20B24-ZZZ, LOF550-20B24E, LOF550-20B24E-ZZZ) Air cooling: 0.00-12.90 (for LOF550-20B24-C, LOF550-20B24-C-ZZZ, LOF550-20B24E-ZZZ, LOF550-20B24E-	Air cooling: 321.6 (for LOF550-20B24, LOF550-20B24-ZZZ, LOF550-20B24E, LOF550-20B24E-ZZZ) Air cooling: 309.6 (for LOF550-20B24-C, LOF550-20B24-C-ZZZ, LOF550-	51500688 (A/O-A/9, B/O-B/9)

		C, LOF550-20B24E-C-ZZZ) 25CFM: 0.00-22.90	20B24E-C, LOF550-20B24E-C-ZZZ) 25CFM: 549.6	
	45.6-50.4	Air cooling: 0.00-6.70 (for LOF550-20B48, LOF550-20B48-ZZZ, LOF550-20B48E, LOF550-20B48E-ZZZ) Air cooling: 0.00-6.50 (for LOF550-20B48-C, LOF550-20B48-C-ZZZ, LOF550-20B48E-C, LOF550-20B48E-C-ZZZ) 25CFM: 0.00-11.46	Air cooling: 321.6 (for LOF550-20B48, LOF550-20B48-ZZZ, LOF550-20B48E, LOF550-20B48E-ZZZ) Air cooling: 312.0 (for LOF550-20B48-C, LOF550-20B48-C-ZZZ, LOF550-20B48E-C, LOF550-20B48E-C-ZZZ) 25CFM: 550.0	51500689 (A/0-A/9, B/0-B/9)
	51.3-56.7	Air cooling: 0.00-5.75 25CFM: 0.00-10.20	Air cooling: 310.5 25CFM: 550.8	51503132 (A/0-A/9, B/0-B/9)

Remark:

- Variable "XXX" stands for 2~3 digits, represents output voltage range is 11.4V-12.6V, 14.3V-15.8V, 17.1V-19.9V, 22.8V-25.2V, 45.6V-50.4V, 51.3V-56.7V; 2 digits represents the integer output voltage, and the step is 1V, such as 24 is 24V; 3 digits represents the decimal output voltage, and the step is 0.1V, such as 567 is 56.7V. Where "C" represents product with metal enclosure, without "C" means open frame (standard model), Suffix "CF" stand for metal enclosure + Fan cooling structure. "ZZZ" can be single to three digits with variable character from A to Z or 0 to 9 are used to distinguish between different customers codes or leave as blank.
- The step of the output current is 0.01A.
- Transformer 51503132 (A/0-A/9, B/0-B/9) are the same except of model name designed.
- Models with the suffix "CF" have the same loading conditions as external fans (25CFM).
- Models with "E" are consistent with the standard product about all other parameters and components. Only the product name is different.**