



Ref. Certif. No.

CA/31196/CSA

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	DC-DC converter
Name and address of the applicant	Mornsun Guangzhou Science & Technology Ltd. No.8, Nanyun Road 4, Huangpu District, Guangzhou, Guangdong 510670, China
Name and address of the manufacturer	Mornsun Guangzhou Science & Technology Ltd. No.8, Nanyun Road 4, Huangpu District, Guangzhou, Guangdong 510670, China
Name and address of the factory	Mornsun (HuaiHua) Science & Technology Co., Ltd. No.16, Jianshe Avenue, High-tech Industrial Development District, Huaihua, Hunan, China
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	Refer to Page 2 of Certificate
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	Refer to Page 2 of Certificate
Additional information (if necessary may also be reported on page 2)	<input type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018 Refer to IEC checklist for national deviations
As shown in the Test Report Ref. No. which forms part of this Certificate	CB 267770-80145765

This CB Test Certificate is issued by the National Certification Body



CSA Group
178 Rexdale Boulevard
Toronto, ON M9W 1R3 Canada

Date: 2022-11-15

Signature: William Meng

Model / Type Ref.:

UWTH1D03LD-yyWR3, UWTH1D03LD-yyWHR3, UWTH1D03LD-yyWFR3, UWTH1D05LD-yyWR3, UWTH1D05LD-yyWHR3, UWTH1D05LD-yyWFR3, UWTH1D12LD-yyWR3, UWTH1D12LD-yyWHR3, UWTH1D12LD-yyWFR3, UWTH1D15LD-yyWR3, UWTH1D15LD-yyWHR3, UWTH1D15LD-yyWFR3, UWTH1D24LD-yyWR3, UWTH1D24LD-yyWHR3, UWTH1D24LD-yyWFR3, UWTH1D28LD-yyWR3, UWTH1D28LD-yyWHR3, UWTH1D28LD-yyWFR3, UWTH1D48LD-yyWR3, UWTH1D48LD-yyWHR3, UWTH1D48LD-yyWFR3, UWTH1D54LD-yyWR3, UWTH1D54LD-yyWHR3, UWTH1D54LD-yyWFR3, where yy= 10 or 20 or 30 for different output rating (See Model difference on the report for detail).

Ratings and principal characteristics

Input: 14 - 160 Vdc, 2.8 A (for 30W models) or 1.8 A (for 20W models) or 0.9 A (for 10W models)				
Part number	Output voltage ---(V)	Output current (A)	Output power (W Max)	Transformer type
UWTH1D05LD-30WR3 UWTH1D05LD-30WHR3 UWTH1D05LD-30WFR3	05	6.0	30	14271480 14231707(A/0,....,A/9)
UWTH1D12LD-30WR3 UWTH1D12LD-30WHR3 UWTH1D12LD-30WFR3	12	2.5		14271479 14231661(A/0,....,A/9)
UWTH1D15LD-30WR3 UWTH1D15LD-30WHR3 UWTH1D15LD-30WFR3	15	2.0		14271479 14231661(A/0,....,A/9)
UWTH1D24LD-30WR3 UWTH1D24LD-30WHR3 UWTH1D24LD-30WFR3	24	1.25		14231664 14271478(A/0,....,A/9)
UWTH1D28LD-30WR3 UWTH1D28LD-30WHR3 UWTH1D28LD-30WFR3	28	1.07		14231664 14271478(A/0,....,A/9)
UWTH1D48LD-30WR3 UWTH1D48LD-30WHR3 UWTH1D48LD-30WFR3	48	0.625		14231663 14271477(A/0,....,A/9)
UWTH1D54LD-30WR3 UWTH1D54LD-30WHR3 UWTH1D54LD-30WFR3	54	0.556		14231663 14271477(A/0,....,A/9)
UWTH1D03LD-20WR3 UWTH1D03LD-20WHR3 UWTH1D03LD-20WFR3	3.3	6.06		20
UWTH1D05LD-20WR3 UWTH1D05LD-20WHR3 UWTH1D05LD-20WFR3	05	4.0	14271480 14231707(A/0,....,A/9)	
UWTH1D12LD-20WR3 UWTH1D12LD-20WHR3 UWTH1D12LD-20WFR3	12	1.667	14231662 14271494(A/0,....,A/9)	
UWTH1D15LD-20WR3 UWTH1D15LD-20WHR3 UWTH1D15LD-20WFR3	15	1.33	14231662 14271494(A/0,....,A/9)	
UWTH1D24LD-20WR3 UWTH1D24LD-20WHR3 UWTH1D24LD-20WFR3	24	0.833	14231664 14271478(A/0,....,A/9)	

Input: 14 - 160 Vdc, 2.8 A (for 30W models) or 1.8 A (for 20W models) or 0.9 A (for 10W models)

Part number	Output voltage ---(V)	Output current (A)	Output power (W Max)	Transformer type
UWTH1D28LD-20WR3 UWTH1D28LD-20WHR3 UWTH1D28LD-20WFR3	28	0.714	10	14231664 14271478(A/0,....,A/9)
UWTH1D48LD-20WR3 UWTH1D48LD-20WHR3 UWTH1D48LD-20WFR3	48	0.417		14231663 14271477(A/0,....,A/9)
UWTH1D54LD-20WR3 UWTH1D54LD-20WHR3 UWTH1D54LD-20WFR3	54	0.37		14231663 14271477(A/0,....,A/9)
UWTH1D03LD-10WR3 UWTH1D03LD-10WHR3 UWTH1D03LD-10WFR3	3.3	3.03		14271481 14231707(A/0,....,A/9)
UWTH1D05LD-10WR3 UWTH1D05LD-10WHR3 UWTH1D05LD-10WFR3	05	2.0		14231707 14271480 (A/0,....,A/9)
UWTH1D12LD-10WR3 UWTH1D12LD-10WHR3 UWTH1D12LD-10WFR3	12	0.833		14231662 14271494(A/0,....,A/9)
UWTH1D15LD-10WR3 UWTH1D15LD-10WHR3 UWTH1D15LD-10WFR3	15	0.667		14231662 14271494(A/0,....,A/9)
UWTH1D24LD-10WR3 UWTH1D24LD-10WHR3 UWTH1D24LD-10WFR3	24	0.417		14231664 14271478(A/0,....,A/9)
UWTH1D28LD-10WR3 UWTH1D28LD-10WHR3 UWTH1D28LD-10WFR3	28	0.357		14231664 14271478(A/0,....,A/9)
UWTH1D48LD-10WR3 UWTH1D48LD-10WHR3 UWTH1D48LD-10WFR3	48	0.208		14231663 14271477(A/0,....,A/9)
UWTH1D54LD-10WR3 UWTH1D54LD-10WHR3 UWTH1D54LD-10WFR3	54	0.185		14231663 14271477(A/0,....,A/9)

Additional information (if necessary)



Date: 2022-11-15

Signature: William Meng