

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

DC/DC Converter

Name and address of the applicant
Nom et adresse du demandeur

MINMAX Technology Corp. Ltd.
No.18, Sin-sin Road, An-Ping Industrial District, Tainan, 702
Taiwan

Name and address of the manufacturer
Nom et adresse du fabricant

MINMAX Technology Corp. Ltd.
No.18, Sin-sin Road, An-Ping Industrial District, Tainan, 702
Taiwan

Name and address of the factory
Nom et adresse de l'usine

MINMAX Technology Corp. Ltd.
No.18, Sin-sin Road, An-Ping Industrial District, Tainan, 702
Taiwan

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Additional Information on page 2

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Nominal input voltage: 24 Vdc or 48 Vdc
Output power: 3 W; 6 W; 10 W or 20 W
See next pages for details

Trademark (if any)
Marque de fabrique (si elle existe)

MINMAX

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

/

Model / Type Ref.
Ref. De type

MDWI03 series, MSDWI03 series, MGWI06 series, MSGWI06
series, MJWI10 series, MJWI10-HS (with heatsink) series,
MJWI20 series, MJWI20-HS (with heatsink) series

Additional information (if necessary may also be reported
on page 2)
Les informations complémentaires (si nécessaire, peuvent
être indiqués sur la 2^{ème} page

This certificate supersedes certificate SI-3237 due to update of
report to Am 2 of IEC 60950-1.

Additional Information on next pages

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013

As shown in the Test Report Ref. No. which forms
part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

T223-0183/16

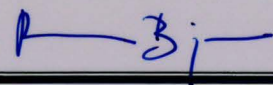
This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



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Product Certification Body is accredited by Slovenian Accreditation, Reg. No.: CP-001

Date: 2016-03-31

Signature: Bojan Pečavar



List of models with electric ratings:**THL 3WI / MDWI03 series**

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 3-2410WI	MDWI03-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 1500mA	110	3,3	600
THL 3-2411WI	MDWI03-24S05		160	5,0	600
THL 3-2412WI	MDWI03-24S12		160	12	250
THL 3-2413WI	MDWI03-24S15		160	15	200
THL 3-2415WI	MDWI03-24S24		160	24	125
THL 3-2421WI	MDWI03-24D05		160	±5	±300
THL 3-2422WI	MDWI03-24D12		160	±12	±125
THL 3-2423WI	MDWI03-24D15		160	±15	±100
THL 3-4810WI	MDWI03-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 800mA	55	3,3
THL 3-4811WI	MDWI03-48S05	80		5,0	600
THL 3-4812WI	MDWI03-48S12	80		12	250
THL 3-4813WI	MDWI03-48S15	80		15	200
THL 3-4815WI	MDWI03-48S24	80		24	125
THL 3-4821WI	MDWI03-48D05	80		±5	±300
THL 3-4822WI	MDWI03-48D12	80		±12	±125
THL 3-4823WI	MDWI03-48D15	80		±15	±100

THL 3WISM / MSDWI03 series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 3-2410WISM	MSDWI03-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 1500mA	110	3,3	600
THL 3-2411WISM	MSDWI03-24S05		160	5,0	600
THL 3-2412WISM	MSDWI03-24S12		160	12	250
THL 3-2413WISM	MSDWI03-24S15		160	15	200
THL 3-2415WISM	MSDWI03-24S24		160	24	125
THL 3-2421WISM	MSDWI03-24D05		160	±5	±300
THL 3-2422WISM	MSDWI03-24D12		160	±12	±125
THL 3-2423WISM	MSDWI03-24D15		160	±15	±100
THL 3-4810WISM	MSDWI03-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 800mA	55	3,3
THL 3-4811WISM	MSDWI03-48S05	80		5,0	600
THL 3-4812WISM	MSDWI03-48S12	80		12	250
THL 3-4813WISM	MSDWI03-48S15	80		15	200
THL 3-4815WISM	MSDWI03-48S24	80		24	125
THL 3-4821WISM	MSDWI03-48D05	80		±5	±300
THL 3-4822WISM	MSDWI03-48D12	80		±12	±125
THL 3-4823WISM	MSDWI03-48D15	80		±15	±100

Units have same construction (electrical and mechanical) as THL 3WI / MDWI03 models, except for the potting material.

THL 6WI / MGWI06 series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 6-2410WI	MGWI06-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 1500mA	260	3,3	1450
THL 3-2411WI	MGWI06-24S05		300	5,0	1200
THL 6-2412WI	MGWI06-24S12		300	12	500
THL 6-2413WI	MGWI06-24S15		300	15	400
THL 6-2415WI	MGWI06-24S24		300	24	250
THL 6-2421WI	MGWI06-24D05		300	±5	±600
THL 6-2422WI	MGWI06-24D12		300	±12	±250
THL 6-2423WI	MGWI06-24D15		300	±15	±200
THL 6-4810WI	MGWI06-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 750mA	130	3,3
THL 6-4811WI	MGWI06-48S05	150		5,0	1200
THL 6-4812WI	MGWI06-48S12	150		12	500
THL 6-4813WI	MGWI06-48S15	150		15	400
THL 6-4815WI	MGWI06-48S24	150		24	250
THL 6-4821WI	MGWI06-48D05	150		±5	±600
THL 6-4822WI	MGWI06-48D12	150		±12	±250
THL 6-4823WI	MGWI06-48D15	150		±15	±200

THL 6WISM / MSGWI06 series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 6-2410WISM	MSGWI06-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 1500mA	260	3,3	1450
THL 3-2411WISM	MSGWI06-24S05		300	5,0	1200
THL 6-2412WISM	MSGWI06-24S12		300	12	500
THL 6-2413WISM	MSGWI06-24S15		300	15	400
THL 6-2415WISM	MSGWI06-24S24		300	24	250
THL 6-2421WISM	MSGWI06-24D05		300	±5	±600
THL 6-2422WISM	MSGWI06-24D12		300	±12	±250
THL 6-2423WISM	MSGWI06-24D15		300	±15	±200
THL 6-4810WISM	MSGWI06-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 750mA	130	3,3
THL 6-4811WISM	MSGWI06-48S05	150		5,0	1200
THL 6-4812WISM	MSGWI06-48S12	150		12	500
THL 6-4813WISM	MSGWI06-48S15	150		15	400
THL 6-4815WISM	MSGWI06-48S24	150		24	250
THL 6-4821WISM	MSGWI06-48D05	150		±5	±600
THL 6-4822WISM	MSGWI06-48D12	150		±12	±250
THL 6-4823WISM	MSGWI06-48D15	150		±15	±200

Units have same construction (electrical and mechanical) as THL 6WI / MGWI06 models, except for the potting material.

THL 10WI / MJWI10 series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 10-2410WI	MJWI10-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 2000mA	400	3,3	2200
THL 10-24110WI	MJWI10-24S05		500	5,0	2000
THL 10-2411WI	MJWI10-24S051		500	5,1	2000
THL 10-2412WI	MJWI10-24S12		500	12	830
THL 10-2413WI	MJWI10-24S15		500	15	660
THL 10-2415WI	MJWI10-24S24		500	24	410
THL 10-2421WI	MJWI10-24D05		500	±5	±1000
THL 10-2422WI	MJWI10-24D12		500	±12	±410
THL 10-2423WI	MJWI10-24D15		500	±15	±330
THL 10-4810WI	MJWI10-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 1000mA	200	3,3
THL 10-48110WI	MJWI10-48S05	250		5,0	2000
THL 10-4811WI	MJWI10-48S051	250		5,1	2000
THL 10-4812WI	MJWI10-48S12	250		12	830
THL 10-4813WI	MJWI10-48S15	250		15	660
THL 10-4815WI	MJWI10-48S24	250		24	410
THL 10-4821WI	MJWI10-48D05	250		±5	±1000
THL 10-4822WI	MJWI10-48D12	250		±12	±410
THL 10-4823WI	MJWI10-48D15	250		±15	±330

Date: 2016-03-31

Signature: Bojan Pečavar



THL 10WI-HS / MJWI10-HS (with heatsink) series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 10-2410WI-HS	MJWI10-24S033-HS	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 2000mA	400	3,3	2200
THL 10-24110WI-HS	MJWI10-24S05-HS		500	5,0	2000
THL 10-2411WI-HS	MJWI10-24S051-HS		500	5,1	2000
THL 10-2412WI-HS	MJWI10-24S12-HS		500	12	830
THL 10-2413WI-HS	MJWI10-24S15-HS		500	15	660
THL 10-2415WI-HS	MJWI10-24S24-HS		500	24	410
THL 10-2421WI-HS	MJWI10-24D05-HS		500	±5	±1000
THL 10-2422WI-HS	MJWI10-24D12-HS		500	±12	±410
THL 10-2423WI-HS	MJWI10-24D15-HS		500	±15	±330
THL 10-4810WI-HS	MJWI10-48S033-HS		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 1000mA	200	3,3
THL 10-48110WI-HS	MJWI10-48S05-HS	250		5,0	2000
THL 10-4811WI-HS	MJWI10-48S051-HS	250		5,1	2000
THL 10-4812WI-HS	MJWI10-48S12-HS	250		12	830
THL 10-4813WI-HS	MJWI10-48S15-HS	250		15	660
THL 10-4815WI-HS	MJWI10-48S24-HS	250		24	410
THL 10-4821WI-HS	MJWI10-48D05-HS	250		±5	±1000
THL 10-4822WI-HS	MJWI10-48D12-HS	250		±12	±410
THL 10-4823WI-HS	MJWI10-48D15-HS	250		±15	±330

Units have same construction (electrical and mechanical) as THL 10WI / MJWI10 models, except for the added heatsink.

THL 20WI / MJWI20 series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 20-2410WI	MJWI10-24S033	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 5000mA	700	3,3	4500
THL 20-2411WI	MJWI10-24S05		940	5,0	4000
THL 20-2412WI	MJWI10-24S12		940	12	1670
THL 20-2413WI	MJWI10-24S15		940	15	1340
THL 20-2415WI	MJWI10-24S24		940	24	835
THL 20-2422WI	MJWI10-24D12		940	±12	±835
THL 20-2423WI	MJWI10-24D15		940	±15	±670
THL 20-4810WI	MJWI10-48S033		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 2500mA	350	3,3
THL 20-4811WI	MJWI10-48S05	470		5,0	4000
THL 20-4812WI	MJWI10-48S12	470		12	1670
THL 20-4813WI	MJWI10-48S15	470		15	1340
THL 20-4815WI	MJWI10-48S24	470		24	835
THL 20-4822WI	MJWI10-48D12	470		±12	±835
THL 20-4823WI	MJWI10-48D15	470		±15	±670

THL 20WI-HS / MJWI20-HS (with heatsink) series

Traco Power model name	Minmax model name	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
THL 20-2410WI-HS	MJW110-24S033-HS	nominal: 24 Vdc range: 9 – 36 Vdc input fuse: 5000mA	700	3,3	4500
THL 20-2411WI-HS	MJW110-24S05-HS		940	5,0	4000
THL 20-2412WI-HS	MJW110-24S12-HS		940	12	1670
THL 20-2413WI-HS	MJW110-24S15-HS		940	15	1340
THL 20-2415WI-HS	MJW110-24S24-HS		940	24	835
THL 20-2422WI-HS	MJW110-24D12-HS		940	±12	±835
THL 20-2423WI-HS	MJW110-24D15-HS		940	±15	±670
THL 20-4810WI-HS	MJW110-48S033-HS		nominal: 48 Vdc range: 18 – 75 Vdc input fuse: 2500mA	350	3,3
THL 20-4811WI-HS	MJW110-48S05-HS	470		5,0	4000
THL 20-4812WI-HS	MJW110-48S12-HS	470		12	1670
THL 20-4813WI-HS	MJW110-48S15-HS	470		15	1340
THL 20-4815WI-HS	MJW110-48S24-HS	470		24	835
THL 20-4822WI-HS	MJW110-48D12-HS	470		±12	±835
THL 20-4823WI-HS	MJW110-48D15-HS	470		±15	±670

Additional information (if necessary)
Information complémentaire (si nécessaire)

Date: 2016-03-31

Signature: Bojan Pečavar

