



America

# CERTIFICATE

No. U8V 15 04 34962 227

**Holder of Certificate:** **SynQor Inc.**  
155 Swanson Road  
Boxborough MA 01719-1316  
USA

**Production Facility(ies):** 34962

**Certification Mark:**



**Product:** DC converter

**Model(s):** NQ03025HMA20XXX  
(See attachment for model designation, ratings and conditions of acceptability.)

**Parameters:**

Rated Input Voltage:	3.0-3.6 V DC
Rated Output Voltage:	2.5 V DC
Rated Output Current:	20 A Max
Degree of Protection:	IPX0

**Tested according to:** CAN/CSA C22.2 No.60950-1:2007/A1:2011  
UL 60950-1:2007/R:2011-12  
EN 60950-1:2006/A2:2013

The product was voluntarily tested according to the relevant safety requirements noted above. It can be marked with the certification mark above. The mark must not be altered in anyway. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC Guide 67. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

**Test report no.:** 72101774-000

**Date,** 2015-04-20

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## Typical Model Designation:

<u>NQ</u>	<u>03</u>	<u>025</u>	<u>H</u>	<u>M</u>	<u>A</u>	<u>20</u>	<u>XXX</u>	<u>X</u>
I	II	III	IV	V	VI	VII	VIII	IX

I – Model Series: NQ = NiQor, Non-Isolated, single-output  
(listed values only)

Nominal

II – Input Voltage: 03 = 3.0-3.6 V  
(listed values only) 04 = 3.0-5.5 V  
05 = 4.5-5.5 V  
10 = 10.2-13.2 V  
12 = 9.6-14.4 V  
15 = 6-15 V  
16 = 6.0-16.0 V

Nominal

III – Output Voltage: All values up to 050 = 5.0 VDC maximum (single output)  
W50 = 0.7-5.0 V  
T50 = 0.7-5.0 V

IV – Package size :  
(listed values only)

V – Vertical  
H – Horizontal  
S – Surface Mount – 0.53 x 1.3”  
N – Surface Mount – without trim – 0.53x1.3 ”  
P – SMT – SPA, 0.4x0.9”  
Q – SMT with trim – SPA, 0.4 x 0.9”

V – Performance :  
(listed values only)

M – Mega  
G - Giga  
K – Kilo

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VI – Heat Spreader :	A – Open Frame
(listed are examples only)	B – Base plate
VII – Rated output current :	30 A max. 0.8-5.0 VDC
	20 A max. 0-3.3 VDC
	16 A max. 3.4-5.0 VDC
VIII – Options Suffix:	Suffix letters and/or numbers denoting non-safety-critical options such as, but not limited to, positive or negative logic, pin configuration, etc.
IX – Option Suffix	G - Rohs

**Note:**

Maximum rated output power for Mega and Kilo series is 80 Watts.

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**Part Number Nomenclature Quarter Brick**

<u>MCOTS-N</u>	<u>12</u>	<u>Q3P1N</u>	<u>Q</u>	<u>T</u>	<u>N</u>	<u>S</u>	<u>RS</u>	<u>G</u>
I	II	III	IV	V	VI	VII	VIII	IX

I	<u>Product</u>	<u>MCOTS-N</u> – MILCOTs Non-Isolated Series
II	<u>Input Voltage</u>	12 = 6-15 Vdc, Output 462 Watts max
III	<u>Output Voltage</u>	Q3P1N = Quad Output 3 Positive 1 Negative
IV	<u>Package Size</u>	Q = Quarter Brick
V	<u>Performance level</u>	T = Tera G1 = Giga1 G = Giga
VI	<u>Thermal design</u>	Options include but are not limited to:  N = Normal Threaded F = Flanged
VII	<u>Screening Level</u>	Burn-in duration, etc (Non safety)
VIII	<u>Options</u>	Non safety options such as, but not limited to, pin length, single or parallelable unit
IX	<u>6/6 RoHS</u>	G = 6/6 RoHS Compliance

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**CONDITIONS OF ACCEPTABILITY –**

When installed in the end product, consideration shall be given to the following:

1. All secondary output circuits are SELV.
2. All models are intended to be supplied from an isolated secondary circuit.
3. Abnormal and Component Failure Tests for model NQ03025VMA15SRS was conducted with the power supply input protected by a 3AG , rated F125 V dc, 20 A. If a fuse greater than 20 A is used, additional testing may be required.
4. Model NQ03025VMA15SRS was tested with 300 LFM airflow
5. Model MCOTS-N-12-Q3P1N-QT was tested with the baseplate maintain at 85°C.

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