



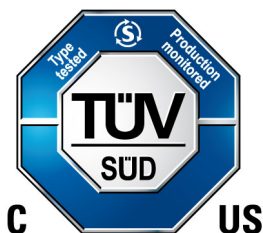
America

CERTIFICATE

No. U8V 034962 0319 Rev. 00

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

Certification Mark:



Product: Audio/Video, Information and Communication technology equipment
 Non-isolated DC-DC Converter

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. 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.: 72173820-000

Date, 2021-11-18

(William J. Stinson)



America

CERTIFICATE

No. U8V 034962 0319 Rev. 00

Model(s): **NQ Series**
(see page 3-6 for model and rating information)

Brand Name: **SynQor**

Tested according to: CAN/CSA-C22.2 No. 62368-1:2014
UL 62368-1:2014

Parameters:

Rated Input Voltage:	9-90 V DC
Rated Input Current:	26 A max
Rated Output Voltage:	0-90 V DC
Rated Output Power:	2000 W max
Degree of Protection:	IPX0

License Conditions:

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

1. If the input is considered to be ES1 then the output circuit is considered to be ES1.
2. There is basic insulation from the input and output circuits to the baseplate for a working voltage of 90 Vdc.
3. Input voltages greater than 60 Vdc are considered to be ES2
4. All models are intended to be supplied from an isolated secondary circuit.
5. Abnormal and Component Failure Tests for High Voltage NiQor were conducted with the power supply input protected by a following fuses. If higher value fuses are used additional may be required:

NQ20-ETC – 25A, 312 type fuse	NQ40-QGC – 40A, AGU type fuse
NQ40-ETC – 20A, 312 type fuse	NQ60-QGC – 25A, 312 type fuse
NQ60-ETC – 20A, 312 type fuse	NQ60-HGC – 50 A, OT50 type fuse
NQ20-QGC – 50A, AGU type fuse	NQ90x90HG - 40A, AGU type fuse



America

CERTIFICATE

No. U8V 034962 0319 Rev. 00

High Voltage NiQor Converters

NQ	60	W	60	Q	G	C	20	Nxx	-G
I	II	III	IV	V	VI	VII	VIII	IX	X

I	Product	NQ – NiQor Series	
II	Input Voltage	20 = 9-20 Vdc 40 = 9-40 Vdc	60 = 9-60 Vdc 90 = 9-90 Vdc
III	Operational Mode	T = Buck W = Buck/Boose	
IV	Output Voltage	20 = 0 – 20 Vdc 40 = 0 – 40 Vdc 60 = 0 – 60 Vdc 90 = 0 – 90 Vdc	
V	Package Size	E = Eighth Brick Q = Quarter Brick H = Half Brick	
VI	Performance level	G = Giga T = Tera P = Peta	
VII	Thermal design	C = Encased w/Threaded Base plate D = Encased w/Non-Threaded Base plate V = Encased w/Flanged Base plate	
VIII	Output Current	XX = 05-50 A max	
IX	Options	Non safety options	
X	6/6 RoHS	G = 6/6 RoHS Compliance	

Maximum Power Ratings

NQ20x20ET	400W max		NQ40W40EP	900 W max
NQ40x40ET	600W max		NQ60W60EP	900 W max
NQ60x60ET	600W max		NQ40W40QT	1500 W max
NQ20x20QG	800W max		NQ90W90QT	1500 W max
NQ40x40QG	800W max		NQ90W90EP	900 W max
NQ60x60QG	800W max			
NQ60x60QT	1500 W max			
NQ60x60HG	2000W max			
NQ90x90HG	2000W max			

Maximum output power is only available at maximum input and maximum output voltage. At all other operating points the power is limited by the input current limit which is the same as the maximum output current.



America

CERTIFICATE

No. U8V 034962 0319 Rev. 00

Part Number Nomenclature Half Brick

MCOTS-N	28V	60	H	G	D	M	xxx	-G
I	II	III	IV	V	VI	VII	VIII	IX

I	Product	MCOTS-N – MiLCOTs Non-isolated Series
II	Input Voltage	28V = 9 - 60 Vdc, Output 2000 Watts max 28VE = 9 - 90 Vdc, Output 2000 Watts max
III	<u>Output Voltage</u>	60 = 0 - 60 Vdc minimum 90 = 0 - 90 Vdc maximum
IV	<u>Package Size</u>	H = Half Brick
V	<u>Performance level</u>	G = Giga M = Mega K = Kilo
VI	<u>Thermal design</u>	Options include but are not limited to: D = Normal Non-Threaded F = Flanged N = Normal Threaded
VII	<u>Screening</u>	Burn-in duration, etc (Non safety)
VIII	<u>Options</u>	Suffix letters and/or numbers denoting non-safety critical functions such as, but not limited to, positive or negative logic, pin length, etc.
IX	<u>6/6 RoHS</u>	G = 6/6 RoHS Compliance



America

CERTIFICATE

No. U8V 034962 0319 Rev. 00

Part Number Nomenclature Eighth Brick

MCOTS-N	28V	60	E	P	D	M	xxx	-G
I	II	III	IV	V	VI	VII	VIII	IX

- I Product MCOTS-N – MiLCOTs Non-isolated Series
- II Input Voltage 28V = 9 - 60 Vdc, Output 900 Watts max
28VE = 9-90 Vdc, Output 900 Watts max
- III Output Voltage 60 = 0 - 60 Vdc minimum
90 = 0-90 Vdc maximum
- IV Package Size E = Eighth Brick
- V Performance level P = Peta
- VI Thermal design Options include but are not limited to:

C= Encased
V = Flanged
- VII Screening Burn-in duration, etc (Non safety)
- VIII Options Suffix letters and/or numbers denoting non-safety critical
functions such as, but not limited to, positive or negative logic, pin length,
etc.
- IX 6/6 RoHS G = 6/6 RoHS Compliance