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America

C E R T I F I C A T E

No. U10 034962 0331 Rev. 03

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

Certification Mark:

C US

Product: Audio/Video, Information and Communication technology equipment
DC-DC - Converters

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

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. The certificate holder shall not transfer this certificate to third parties. 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, Certification, Validation and Verification Regulations (TCVVR)". For Canadian standards TÜV SÜD America Inc. is accredited by the Standards Council of Canada to ISO/IEC 17065.

Test report no.: 72183563-000

Date, 2024-08-02

(William J. Stinson)

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America

C E R T I F I C A T E

No. U10 034962 0331 Rev. 03

Model(s): **MCOTS-C-28-xx-H (Half Brick)**
PQ60xxxQEAxx (Quarter Brick)
MCOTS-C-28-xx-SG; IQ18xxxSGXxxx; PQ60xxxSGAxx (Sixteenth Brick)

Brand Name(s): **SynQor**

Parameters:

Rated Input Voltage:	9-40 VDC (Half) 16-40 VDC or 34-75 VDC; (Sixteenth) 9-36 VDC; 34-75 VDC 35-75 VDC (Quarter)
Rated Input Power:	500W (Half) 50W (Sixteenth) 396W max (Quarter)
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 or ES2 than the output circuit is considered to be ES1.
2. There is basic insulation from the input and output circuits to the baseplate
3. All models are intended to be supplied from an isolated secondary circuit.
4. Abnormal and Component Failure Tests were conducted with the Sixteenth brick power supply input protected by a 20A, AGC fast blow fuse. If higher value fuse is used additional testing may be required.
5. Abnormal and Component Failure Tests were conducted with the Half brick power supply input protected by an 80A, AGC fast blow fuse. If higher value fuse is used additional testing may be required.

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IQ/WQ Series Nomenclature Sixteenth Brick

IQ	18	050	S	M	C	XY	N	-G
I	II	III	IV	V	VI	VII	VIII	IX

I	Product	IQ = InQor Series WG – WirelessQor
II	Input Voltage	18 = 9-36 Vdc, Output 50 Watts max
III	Output Voltage	3 Numbers denoting output voltage in tenths of a volt 018 = 1.8 Vdc, minimum 480 = 48.0 Vdc, maximum
IV	Package Size	S = Sixteenth Brick
V	Performance level	M = Mega K = Kilo G = Giga
VI	Thermal design	Examples but not limited to: A = Open Frame C = Encased
VII	Output Current	X = 0 – 2 (25 Amps max) Y = 0 – 9 or A-J (A = .0, B = .1 …. J = .9) Example: 24 = 24 Amps, 03=03 Amps, 2F = 2.5 Amps
VIII	Options	Non Safety options
XI	6/6 RoHS	G = 6/6 RoHS Compliance

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MCOTS-C Series Nomenclature Sixteenth Brick

MCOTS-C -	28 -	12 -	S	M -	N -	M -	xxx
I	II	III	IV	V	VI	VII	VIII

I	Product	MCOTS-C-MILCOTs Converters
II	Input Voltage	28 = 16-40 Vdc, Output 50 Watts max 48 = 34-75 Vdc, Output 50 Watts Max
III	Output Voltage	3 Characters denoting output voltage in volts R – Decimal point 1R8 – 1.8 Vdc minimum 48 = 48 Vdc maximum
IV	Package Size	S = Sixteenth Brick (25 Amps max)
V	Performance level	K = Kilo M = Mega G = Giga
VI	Thermal Design	Examples but not limited to: F = Flanged N = Normal
VII	Screening Level	Burn-in duration, etc (Non Safety)
VIII	Options	Blank to 3 characters denoting non-safety options such as, but not limited to, positive or negative logic, pin configurations, etc.

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PQ60 Series Nomenclature Sixteenth Brick

PQ-	60-	xxx-	S	x-	y-	zz-	N	-G
I	II	III	IV	V	VI	VII	VIII	IX

I	Product	PQ – PowerQor Series
II	Input Voltage	60 = 35-75 Vdc, Output 50 Watts max
III	Output Voltage	www = Three digits specifying output voltage in tenths of volts 033 = 3.3 Vdc minimum 050 = 5.0 Vdc maximum
IV	Package Size	S = Sixteenth Brick
V	Performance level	G = Giga
VI	Thermal design	Examples but not limited to: y = Once character specifying packaging A = Open Frame
VII	Output Current	zz = Two digits specifying output current in amperes 10 = 10 Amps 15 = 15 Amps maximum
VIII	Options	Blank to 3 characters denoting non-safety options such as, but not limited to, positive or negative logic, pin configurations, etc.
IX	6/6 RoHS	G = 6/6 RoHS Compliance

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PQ60 Series Nomenclature Quarter Brick

PQ-	60-	www	Q	X	Y	Zz	N	-G
I	II	III	IV	V	VI	VII	VIII	IX

I Product PQ = PowerQor Series

II Input Voltage
48 = 35-75 Vdc, Output 100 W, 25 A max
60 = 35-75 Vdc, Output 396 W, 60 A max

III Output Voltage www = Three digits specifying output voltage in tenths of volts
010 = 1.0 Vdc minimum
500 = 50.0 Vdc maximum

IV Package Size Q = Quarter Brick

V Performance level x = One character specifying performance
E = Exa G = Giga
P = Peta M = Mega
T = Tera Z = Zeta

VI Thermal design Examples of but not limited to:
y = One character specifying packaging
A = Open Frame
B = Baseplate
C = Encased
D = 0.080” Thick Baseplate
L = Low Profile
M = Standard Baseplate

VII Output Current zz = Two digits specifying output current in amperes
03 = 3 Amps 60 = 60 Amps maximum

VIII Options Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc

XI 6/6 RoHS G = 6/6 RoHS Compliance

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MCOTS-C Series Nomenclature Half Brick

MCOTS-C	28-	12-	H-	P-	N-	M-	xxx
I	II	III	IV	V	VI	VII	VIII

I	Product	MCOTS-C - MILCOTS Converter
II	Input Voltage	28V = 9-40 Vdc
III	Output Voltage	3 Characters denote voltage in volts R = Decimal point 1R8 = 1.8 Vdc minimum 480 = 48 Vdc maximum
IV	Package Size	H = Half Brick
V	Performance Level	K = Kilo M – Mega G = Giga T = Tera P = Peta E = Exa Z = Zeta Y = Yotta
VI	Thermal Design	N = Normal Threaded D = Non-Threaded F = Flanged
VII	Screening Level	Burn-in duration, etc (non-safety)
VIII	Options	Blank to 3 characters denoting non-safety options such as, but not limited to, positive or negative logic, Pin configuration, etc.

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