



America

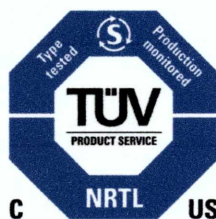
# CERTIFICATE

No. U8V 11 05 34962 118

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

**Production Facility(ies):** 34962

**Certification Mark:**



**Product:** DC converter  
DC/DC Converter

**Model(s):** PQ60wwwHxyzz  
(See attachments for additional model information)

**Parameters:**

|                       |            |
|-----------------------|------------|
| Rated Input Voltage:  | 35-75 V DC |
| Rated Output Voltage: | 28 V DC    |
| Rated Output Current: | 28 A max   |
| Rated Output Power:   | 728 W      |

(see attachment for additional rating information, and License Conditions)

**Tested according to:** CAN/CSA C22.2 No. 60950-1:2007  
UL 60950-1:2007  
EN 60950-1:A1:2010

The product was voluntarily tested according to the relevant safety requirements and mentioned properties. It can be marked with the certification mark shown above. The certification mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles that described by ISO/IEC Guide 67, Conformity assessment - Fundamentals of product certification, System 3. See also notes overleaf.

**Test report no.:** 090-1004376-200

**Date,** 2011-05-26

Page 1 of 11



**Company:** SynQor Inc.  
155 Swanson Road  
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### Full Bricks

|      | <u>PQ</u><br>I                                              | <u>60</u><br>II | <u>www</u><br>III | <u>F</u><br>IV                                                                                                            | <u>T</u><br>V | <u>y</u><br>VI | <u>zz</u><br>VII | <u>N</u><br>VIII | <u>-G</u><br>IX |
|------|-------------------------------------------------------------|-----------------|-------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|----------------|------------------|------------------|-----------------|
| I    | <u>Product</u>                                              |                 |                   | PQ = PowerQor Series<br>WQ = WirelessQor                                                                                  |               |                |                  |                  |                 |
| II   | <u>Input Voltage</u>                                        |                 |                   | 24 = 18-36 vdc, Output 602 W, 21.5 A max<br>60 = 35-75 Vdc, Output 728 W, 28 A max                                        |               |                |                  |                  |                 |
| III  | <u>Output Voltage</u>                                       |                 |                   | www = Three digits specifying output voltage in tenths of volts<br>280 = 28.0 Vdc maximum                                 |               |                |                  |                  |                 |
| IV   | <u>Package Size</u>                                         |                 |                   | F = Full Brick                                                                                                            |               |                |                  |                  |                 |
| V    | <u>Performance level</u>                                    |                 |                   | T = Tera                                                                                                                  |               |                |                  |                  |                 |
| VI   | <u>Thermal design</u><br>Examples of but<br>not limited to: |                 |                   | y = One character specifying packaging<br>A = Open Frame<br>B = Baseplate<br>F = Non-threaded Baseplate                   |               |                |                  |                  |                 |
| VII  | <u>Output Current</u>                                       |                 |                   | zz = Two digits specifying output current in amperes<br>22 = 21.5 Amps<br>26 = 26.0 Amps Maximum                          |               |                |                  |                  |                 |
| VIII | <u>Options</u>                                              |                 |                   | Three characters that denote non safety critical options<br>such as, but not limited to, pin length, enable polarity, etc |               |                |                  |                  |                 |
| XI   | <u>6/6 RoHS</u>                                             |                 |                   | G = 6/6 RoHS Compliance                                                                                                   |               |                |                  |                  |                 |

### Typical Full Brick Model Numbers

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum<br>Output |      |      |
|-------------------------|------------|----------|-------------------|------|------|
|                         |            |          | Vdc               | Amp  | Watt |
| PQ24280FTB22            | 18-36      | 37.5     | 28                | 21.5 | 602  |
| PQ60280FTB26            | 35-75      | 22       | 28                | 26   | 728  |

Date: 2011-05-26  
Page 2 of 11



**Company:** SynQor Inc.  
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### Half Bricks

|      | <u>PQ</u><br>I                                           | <u>60</u><br>II | <u>www</u><br>III | <u>H</u><br>IV | <u>x</u><br>V | <u>Y</u><br>VI | <u>zz</u><br>VII | <u>N</u><br>VIII | <u>-G</u><br>IX                                                                                                                                                                                                                                                                                                      |
|------|----------------------------------------------------------|-----------------|-------------------|----------------|---------------|----------------|------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I    | <u>Product</u>                                           |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | BQ = BusQor Series<br>PQ = PowerQor Series<br>SQ = Semi-regulated BusQor                                                                                                                                                                                                                                             |
| II   | <u>Input Voltage</u>                                     |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | 48 = 35-75 Vdc, Output 165 W, 60 A max (PQ only)<br>50 = 42-52 Vdc, Output 660 W, 60 A max (PQ only)<br>55 = 38-55 Vdc, Output 600 W, 52 A max (PQ only)<br>60 = 35-75 Vdc, Output 360 W, 30 A max (BQ only)<br>60 = 35-75 Vdc, Output 600 W, 100A max (PQ only)<br>60 = 35-75 Vdc, Output 600 W, 50 A max (SQ only) |
| III  | <u>Output Voltage</u>                                    |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | www = Three digits specifying output voltage in tenths of volts<br>012 = 1.2 Vdc minimum<br>540 = 54.0 Vdc maximum                                                                                                                                                                                                   |
| IV   | <u>Package Size</u>                                      |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | H = Half Brick                                                                                                                                                                                                                                                                                                       |
| V    | <u>Performance level</u>                                 |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | x = One character specifying performance<br>Z = Zeta<br>E = Exa<br>P = Peta<br>T = Tera<br>G = Giga<br>M = Mega<br>K = Kilo                                                                                                                                                                                          |
| VI   | <u>Thermal design</u><br>Examples of but not limited to: |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | y = One character specifying packaging<br>A = Open Frame<br>B = Baseplate<br>C = Encased<br>F = Non-threaded Baseplate<br>L = Low Profile<br>M = Standard Baseplate                                                                                                                                                  |
| VII  | <u>Output Current</u>                                    |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | zz = Two digits specifying output current in amperes, A=10<br>04 = 4 Amps<br>A0 = 100 Amps maximum                                                                                                                                                                                                                   |
| VIII | <u>Options</u>                                           |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc                                                                                                                                                                                               |
| IX   | <u>6/6 RoHS</u>                                          |                 |                   |                |               |                |                  |                  |                                                                                                                                                                                                                                                                                                                      |
|      |                                                          |                 |                   |                |               |                |                  |                  | G = 6/6 RoHS Compliance                                                                                                                                                                                                                                                                                              |

Date: 2011-05-26  
Page 3 of 11



**Attachment to Certificate Number: U8V 11 05 34962 118**

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**Typical Half Brick Model Numbers**

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum<br>Output |     |      |
|-------------------------|------------|----------|-------------------|-----|------|
|                         |            |          | Vdc               | Amp | Watt |
| PQ48150HGA10            | 35-75      | 6.0      | 15                | 40  | 150  |
| PQ48033HTA50            | 35-75      | 6.0      | 15                | 60  | 168  |
| PQ50120HZB55            | 44-52      | 16.2     | 18                | 60  | 660  |
| PQ55070HZB52            | 38-55      | 19.0     | 55.6              | 52  | 600  |
| PQ60120HZB50            | 35-75      | 20.0     | 52.5              | 100 | 600  |
| SQ60120HZB50            | 35-75      | 20.0     | 52.5              | 100 | 600  |

Date: 2011-05-26  
Page 4 of 11



**Company:** SynQor Inc.  
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**Quarter Bricks**

|      | <u>PQ</u>                                                | <u>60</u> | <u>www</u> | <u>Q</u> | <u>x</u> | <u>y</u> | <u>zz</u> | <u>N</u> | <u>-G</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|----------------------------------------------------------|-----------|------------|----------|----------|----------|-----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I    | II                                                       | III       | IV         | V        | VI       | VII      | VIII      | IX       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| I    | <u>Product</u>                                           |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | BQ = BusQor Series<br>PQ = PowerQor Series<br>SQ = Semi-regulated BusQor<br>WQ = WirelessQor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| II   | <u>Input Voltage</u>                                     |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | 24 = 18-36 Vdc, Output 100 W, 25 A max (PQ only)<br>30 = 18-60 Vdc, Output 100 W, 30 A max (PQ only)<br>40 = 18-75 Vdc, Output 100 W, 30 A max (PQ only)<br>48 = 35-75 Vdc, Output 100 W, 25 A max (PQ only)<br>50 = 42-53 Vdc, Output 331 W, 25 A max (BQ only)<br>50 = 44-52 Vdc, Output 100 W, 11 A max (PQ only)<br>51 = 42-55 Vdc, Output 473W, 43 A max (BQ only)<br>55 = 36-55 Vdc, Output 575W, 60 A max (BQ only)<br>57 = 40-65 Vdc, Output 630 W, 60 A max (BQ only)<br>60 = 35-75 Vdc, Output 396 W, 60 A max (PQ only)<br>60 = 36-75 Vdc, Output 396 W, 60 A max (SQ only)<br>60 = 36-75 Vdc, Output 420 W, 35 A max (WQ only)<br>65 = 40-75 Vdc, Output 100 W, 5.6 A max (PQ only) |
| III  | <u>Output Voltage</u>                                    |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | www = Three digits specifying output voltage in tenths of volts<br>010 = 1.0 Vdc minimum<br>480 = 48.0 Vdc maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| IV   | <u>Package Size</u>                                      |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | Q = Quarter Brick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| V    | <u>Performance level</u>                                 |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | x = One character specifying performance<br>E = Exa<br>P = Peta<br>T = Tera<br>G = Giga<br>M = Mega<br>Z = Zeta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VI   | <u>Thermal design</u><br>Examples of but not limited to: |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | y = One character specifying packaging<br>A = Open Frame<br>B = Baseplate<br>C = Encased<br>D = 0.080" Thick Baseplate<br>L = Low Profile<br>M = Standard Baseplate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VII  | <u>Output Current</u>                                    |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | zz = Two digits specifying output current in amperes<br>03 = 3 Amps<br>60 = 60 Amps maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VIII | <u>Options</u>                                           |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| XI   | <u>6/6 RoHS</u>                                          |           |            |          |          |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                          |           |            |          |          |          |           |          | G = 6/6 RoHS Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Date: 2011-05-26  
Page 5 of 11



**Attachment to Certificate Number: U8V 11 05 34962 118**

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**Typical Quarter Brick Model Numbers**

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum<br>Output |     |      |
|-------------------------|------------|----------|-------------------|-----|------|
|                         |            |          | Vdc               | Amp | Watt |
| PQ24150QGA07            | 18-36      | 8.0      | 15                | 25  | 100  |
| PQ30033QGA30            | 18-60      | 6.0      | 3.3               | 30  | 100  |
| PQ40120QGB08            | 18-75      | 7.5      | 15                | 25  | 100  |
| PQ48150QGA07            | 35-75      | 5.0      | 15                | 25  | 100  |
| BQ50120QTC25            | 42-53      | 6.1      | 13.2              | 25  | 331  |
| PQ50090QGB11            | 44-52      | 2.5      | 9                 | 11  | 99   |
| BQ51090QPA40            | 42-55      | 9.5      | 11                | 43  | 473  |
| BQ55120QEA50            | 36-55      | 12.5     | 13.7              | 60  | 575  |
| PQ60120QZB33            | 35-75      | 12.3     | 12                | 33  | 396  |
| SQ60120QPA28            | 36-75      | 12.0     | 12                | 55  | 336  |
| WQ60120QPA35            | 36-75      | 13.1     | 12                | 35  | 420  |
| PQ65180QGB06            | 40-75      | 4.0      | 18                | 5.6 | 100  |

Date: 2011-05-26  
Page 6 of 11





**Company:** SynQor Inc.  
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**Eighth Bricks**

|      | <u>PQ</u>                                                | <u>60</u> | <u>www</u> | <u>E</u> | <u>x</u> | <u>y</u> | <u>zz</u> | <u>N</u> | <u>-G</u>                                                                                                                                                                                                   |
|------|----------------------------------------------------------|-----------|------------|----------|----------|----------|-----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I    | II                                                       | III       | IV         | V        | VI       | VII      | VIII      | IX       |                                                                                                                                                                                                             |
| I    | <u>Product</u>                                           |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | BQ = BusQor Series<br>PQ = PowerQor Series<br>SQ = Semi-regulated BusQor                                                                                                                                    |
| II   | <u>Input Voltage</u>                                     |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | 30 = 18-60 Vdc, Output 66 W, 20 A max (PQ only)<br>55 = 35-55 Vdc, Output 297 W, 27 A max (BQ only)<br>60 = 35-75 Vdc, Output 100 W, 45 A max (PQ only)<br>60 = 35-75 Vdc, Output 240 W, 20 A max (SQ only) |
| III  | <u>Output Voltage</u>                                    |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | www = Three digits specifying output voltage in tenths of volts<br>010 = 1.0 Vdc minimum<br>240 = 24.0 Vdc maximum                                                                                          |
| IV   | <u>Package Size</u>                                      |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | E = Eighth Brick                                                                                                                                                                                            |
| V    | <u>Performance level</u>                                 |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | x = One character specifying performance<br>T = Tera<br>G = Giga<br>M = Mega<br>K = Kilo                                                                                                                    |
| VI   | <u>Thermal design</u><br>Examples of but not limited to: |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | y = One character specifying packaging<br>A = Open Frame<br>B = Baseplate<br>C = Encased<br>L = Low Profile<br>M = Low Profile Baseplate                                                                    |
| VII  | <u>Output Current</u>                                    |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | zz = Two digits specifying output current in amperes<br>03 = 3 Amps<br>45 = 45 Amps maximum                                                                                                                 |
| VIII | <u>Options</u>                                           |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc                                                                                      |
| XI   | <u>6/6 RoHS</u>                                          |           |            |          |          |          |           |          |                                                                                                                                                                                                             |
|      |                                                          |           |            |          |          |          |           |          | G = 6/6 RoHS Compliance                                                                                                                                                                                     |

**Typical Eighth Brick Model Numbers**

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum Output |     |      |
|-------------------------|------------|----------|----------------|-----|------|
|                         |            |          | Vdc            | Amp | Watt |
| PQ30033ETB20            | 18-60      | 4.5      | 3.3            | 20  | 66   |
| BQ55120ETA20            | 35-55      | 5.8      | 13.75          | 27  | 297  |
| PQ60033ETL30            | 35-75      | 3.2      | 24             | 45  | 99   |
| SQ60120ETA17            | 35-75      | 6.0      | 12             | 17  | 204  |
| SQ60120ETA20            | 35-75      | 6.0      | 12             | 20  | 240  |

Date: 2011-05-26  
Page 7 of 11



**Company:** SynQor Inc.  
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### Sixteenth Bricks

|      | <u>PQ</u><br>I                                           | <u>60</u><br>II | <u>www</u><br>III | <u>S</u><br>IV                                                                                                         | <u>x</u><br>V | <u>y</u><br>VI | <u>zz</u><br>VII | <u>N</u><br>VIII | <u>-G</u><br>IX |
|------|----------------------------------------------------------|-----------------|-------------------|------------------------------------------------------------------------------------------------------------------------|---------------|----------------|------------------|------------------|-----------------|
| I    | <u>Product</u>                                           |                 |                   | PQ = PowerQor Series                                                                                                   |               |                |                  |                  |                 |
| II   | <u>Input Voltage</u>                                     |                 |                   | 60 = 35-75 Vdc, Output 66 W, 25 A max                                                                                  |               |                |                  |                  |                 |
| III  | <u>Output Voltage</u>                                    |                 |                   | www = Three digits specifying output voltage in tenths of volts<br>012 = 1.2 Vdc minimum<br>150 = 15.0 Vdc maximum     |               |                |                  |                  |                 |
| IV   | <u>Package Size</u>                                      |                 |                   | S = Sixteenth Brick                                                                                                    |               |                |                  |                  |                 |
| V    | <u>Performance level</u>                                 |                 |                   | x = One character specifying performance<br>G = Giga<br>M = Mega<br>K = Kilo                                           |               |                |                  |                  |                 |
| VI   | <u>Thermal design</u><br>Examples of but not limited to: |                 |                   | y = One character specifying packaging<br>A = Open Frame<br>C = Encased<br>L = Low Profile                             |               |                |                  |                  |                 |
| VII  | <u>Output Current</u>                                    |                 |                   | zz = Two digits specifying output current in amperes<br>03 = 3 Amps<br>25 = 25 Amps maximum                            |               |                |                  |                  |                 |
| VIII | <u>Options</u>                                           |                 |                   | Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc |               |                |                  |                  |                 |
| XI   | <u>6/6 RoHS</u>                                          |                 |                   | G = 6/6 RoHS Compliance                                                                                                |               |                |                  |                  |                 |

### Typical Sixteenth Brick Model Numbers

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum Output |     |      |
|-------------------------|------------|----------|----------------|-----|------|
|                         |            |          | Vdc            | Amp | Watt |
| PQ60050SGL12            | 35-75      | 2.1      | 5              | 25  | 66   |

Date: 2011-05-26  
Page 8 of 11



**Company:** SynQor Inc.  
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### Dual Output Quarter Bricks

|      | <u>DQ</u><br>I                                           | <u>6</u><br>II                                                                                                                                                                                                                                                          | <u>www</u><br>III | <u>Q</u><br>IV | <u>x</u><br>V | <u>y</u><br>VI | <u>zz</u><br>VII | <u>N</u><br>VIII | <u>-G</u><br>IX |
|------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|---------------|----------------|------------------|------------------|-----------------|
| I    | <u>Product</u>                                           | DQ = PowerQor Series                                                                                                                                                                                                                                                    |                   |                |               |                |                  |                  |                 |
| II   | <u>Input Voltage</u>                                     | 6 = 35-75 Vdc, Output 100 W, 18 A max                                                                                                                                                                                                                                   |                   |                |               |                |                  |                  |                 |
| III  | <u>Output Voltage</u>                                    | www = Four digits specifying the two output voltages<br>2412 = 2.4 Vdc and 1.2 Vdc<br>3312 = 3.3 Vdc and 1.2 Vdc<br>3315 = 3.3 Vdc and 1.5 Vdc<br>3318 = 3.3 Vdc and 1.8 Vdc<br>3325 = 3.3 Vdc and 2.5 Vdc<br>5033 = 5.0 Vdc and 3.3 Vdc<br>1212 = +/- 12.0 Vdc maximum |                   |                |               |                |                  |                  |                 |
| IV   | <u>Package Size</u>                                      | Q = Quarter Brick                                                                                                                                                                                                                                                       |                   |                |               |                |                  |                  |                 |
| V    | <u>Performance level</u>                                 | x = One character specifying performance<br>G = Giga<br>M = Mega<br>K = Kilo                                                                                                                                                                                            |                   |                |               |                |                  |                  |                 |
| VI   | <u>Thermal design</u><br>Examples of but not limited to: | y = One character specifying packaging<br>A = Open Frame<br>B = Baseplate<br>L = Low Profile                                                                                                                                                                            |                   |                |               |                |                  |                  |                 |
| VII  | <u>Output Power</u>                                      | zz = Two digits specifying output power in tens of watts<br>02 = 20 Watts<br>10 = 100 Watts maximum                                                                                                                                                                     |                   |                |               |                |                  |                  |                 |
| VIII | <u>Options</u>                                           | Three characters that denote non safety critical options such as, but not limited to, pin length, enable polarity, etc                                                                                                                                                  |                   |                |               |                |                  |                  |                 |
| IX   | <u>6/6 RoHS</u>                                          | G = 6/6 RoHS Compliance                                                                                                                                                                                                                                                 |                   |                |               |                |                  |                  |                 |

### Typical Dual Output Quarter Brick Model Number

| Example<br>Model Number | Vin<br>VDC | Iin<br>A | Maximum Output |      |      |
|-------------------------|------------|----------|----------------|------|------|
|                         |            |          | Vdc            | Amp  | Watt |
| DQ65033QGL10            | 35-75      | 3.2      | 12             | 16.0 | 100  |

Date: 2011-05-26  
Page 9 of 11



**Company:** SynQor Inc.  
155 Swanson Road  
Boxborough, MA 01719-1316 USA



The following part numbers are electrically and mechanically equivalent:

| Custom Part # | SynQor Part # |
|---------------|---------------|
| CQ0026200     | PQ50033QPB60  |
| BQ50120RHP20  | BQ50120QTA20  |
| DQ65033FHP06  | DQ65033QMA06  |
| PQ480157HP30  | PQ48015HMA30  |
| PQ480158HP20  | PQ48015HKA20  |
| PQ48015BHP25  | PQ40015QGA25  |
| PQ480184HP60  | PQ40018HTA60  |
| PQ480186HP25  | PQ40018QGA25  |
| PQ48018AHP40  | PQ40018HGA30  |
| PQ48018DHP40  | PQ48018HGA40  |
| PQ480333HP50  | PQ48033HTA50  |
| PQ480339HP30  | PQ48033HMA30  |
| PQ48033HHP25  | PQ48033QGA25  |
| PQ480501HP30  | PQ48050HGA30  |
| PQ481205HP08  | PQ48120QGA08  |
| PQ48120GHP14  | PQ48120HTA14  |
| PQ60015NHP20  | PQ60015EGL20  |
| PQ60015QHP40  | PQ60015QTA40  |
| PQ60018PHP15  | PQ60018EML15  |
| PQ60120SHP08  | PQ60120QGA08  |

Date: 2011-05-26  
Page 10 of 11



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**License Conditions –**

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

1. The units should be installed per the manufacturer's specification.
2. Maximum output power is specified over ambient temperatures and 100 LFM to 1200 LFM airflow.
3. Abnormal and Component Failure Tests for Sixteenth Bricks were conducted with the power supply input protected by a 3AG 20 A, 250 V fuse. If a fuse rated greater than 3AG 20 A is used, additional testing may be required.
4. Abnormal and Component Failure Tests for Eighth Bricks(Except SQ60120ETA used 15 A fuse) were conducted with the power supply input protected by a 3AG 20 A, 250 V fuse. If a fuse rated greater than 3AG 20 A is used, additional testing may be required.
5. Abnormal and Component Failure Tests for Quarter Bricks(Except SQ60120PA28 used 15 A fuse) were conducted with the power supply input protected by a 3AG 20 A, 250 V fuse. If a fuse rated greater than 3AG 20 A is used, additional testing may be required.
6. Abnormal and Component Failure Tests for Half Bricks(Except Half Bricks greater than 400 W used 30 A fuse) were conducted with the power supply input protected by a 3AG 20 A, 250 V fuse. If a fuse rated greater than 3AG 20 A is used, additional testing may be required.
7. Abnormal and Component Failure Tests for Full Brick were conducted with the power supply input protected by an AGC 30 A, 250 V fuse for input voltages of 35-75 V. If a fuse rated greater than AGC 30 A is used, additional testing may be required.
8. Abnormal and Component Failure Tests for Full Brick were conducted with the power supply input protected by a JJN-50 50 A, 160 V fuse for input voltages of 18-36 V. If a fuse rated greater than JJN-50 50A is used, additional testing may be required.
9. If the input meets all of the requirements for SELV ( $V \leq 60$ ), the outputs may be considered SELV. Output voltages remain within SELV limits.
10. For base plate or heat sink units, the maximum operating base plate or heat sink temperature is 100°C.
11. All models are intended to be supplied from an isolated secondary circuit and have been evaluated for basic insulation between the input and output circuits.
12. These units are intended to be supplied from an isolated source of supply, such as a battery, or a source which meets the requirements for basic (ELV) or reinforced (SELV) insulation from primary (mains) circuitry, depending on output type desired.
13. The Output circuit of model PQ60525HTA meets all the requirements for ELV ( $V \leq 60$ ), the output may be considered ELV. Output voltages remain within ELV limits under normal operating conditions.
14. If the input meets all the requirements for TNV-2, the outputs may be considered SELV achieved by basic insulation.

Date: 2011-05-26  
Page 11 of 11

