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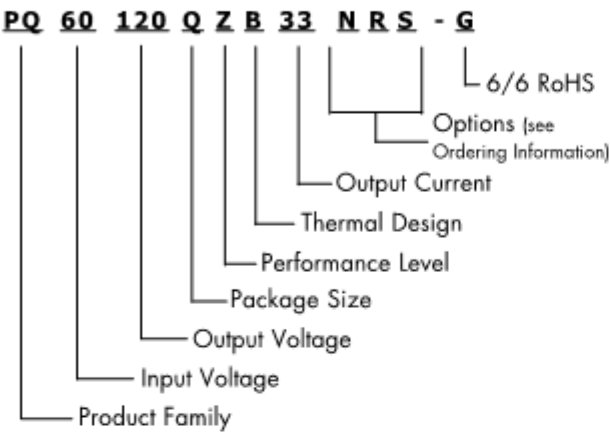
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Part Numbering System

The part numbering system for SynQor's dc-dc converters follows the format shown in the example below.



The first 12 characters comprise the base part number and the last 3 characters indicate available options. The "-G" suffix indicates 6/6 RoHS compliance.

Application Notes

PQ60120QZx33

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35-75V	100V	12V	<u>OK</u> 400W	2250V DC	QUARTER-BRICK
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35-75V

Input

100VTransient
Input**12V**

Output

400WMax
Power**2250V DC**

Isolation

QUARTER-BRICKDC-DC
Converter

Product Details

The PQ60120QZB33 PowerQor Zeta Quarter-brick converter is a next-generation, board-mountable, isolated, fixed switching frequency DC/DC converter. The Zeta series offers industry leading power density for standard isolated DC/DC converters with both a wide input range and a tightly regulated output. Targeted for use in intermediate bus architectures, this module supplies an isolated step down voltage from 35-75V to 12V and provides more available power and higher efficiency than most competitive bus converters. RoHS Compliant (see last page).

OPERATIONAL FEATURES

- High efficiency, 96% at full rated load current
- Delivers 33A full power with minimal derating - no heatsink required
- Operating input voltage range: 35-75V
- Input voltage transient capability: 100V, 100ms
- Fixed frequency switching provides predictable EMI
- No minimum load requirement
- Wide output voltage trim range (-50%), see trim section

MECHANICAL FEATURES

- Industry standard quarter-brick footprint and pin-out
- Size: 2.30" x 1.45" x 0.496", 58.4 x 36.7 x 12.6 mm
- Total weight: 2.4 oz. (69 g)

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CONTROL FEATURES**OK**

- On/Off control referenced to input side
- Negative logic options are available

SAFETY FEATURES

- UL 60950-1/R2011-12
- EN60950-1/A2:2013
- CAN/CSA-C22.2 No. 60950-1/A1:2011

PROTECTION FEATURES

- Input under-voltage lockout disables converter at low V_{in} conditions
- Output current limit
- Short circuit protection
- Protection from permanent damage and hazardous conditions
- Active back bias limit
- Smooth startup with external load induced pre-bias
- Output OVP protects load from damaging voltages
- Thermal shutdown protects converter from abnormal conditions

PQ60120QZx33

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