



CQ0160400
Output: 6 V
Current: 110 A

Input Voltage Range Addendum (MCOTS)

DESCRIPTION

This technical addendum contains additional specifications for a modified version of the standard MCOTS-C-270H-06-FP-D-M-F product. These modified units match all other aspects of form, fit and function of MCOTS-C-270H-06-FP-D-M-F. The units have a wider input voltage range from 180 V-425 V.

Please refer to the MCOTS-C-270H-06-FP-D-M-F datasheet for all specifications that are not included in this addendum.

MilCOTS™



Tb = 25 °C, Vin = 270 Vdc unless otherwise noted; full operating temperature range is -55 °C to +100 °C baseplate temperature with appropriate power derating. Specifications subject to change without notice.

Parameter	Min.	Typ.	Max.	Units	Notes & Conditions
INPUT CHARACTERISTICS					
Operating Input Voltage Range	180	270	425	V	475 V transient for 1 s
Input Under-Voltage Turn-On Threshold	160	169	178	V	
Input Under-Voltage Turn-Off Threshold	153	161	170	V	

Ordering Information/ Part Numbering

Example CQ0160400

Not all combinations make valid part numbers, please contact SynQor for availability. See product summary page for details.

Part Number	Input Voltage	Vout	Iout	Package	Heatsink Option	Screening Level	Options
CQ0160400	180-425 V	6 V	110 A	Full Brick	Normal Non-Threaded	M-Grade	Full Feature

Contact SynQor for further information and to order:

Phone: 978-849-0600
Toll Free: 888-567-9596
Fax: 978-849-0602
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 Boxborough, MA 01719
 USA

PATENTS

SynQor holds numerous U.S. patents, one or more of which apply to most of its power conversion products. Any that apply to the product(s) listed in this document are identified by markings on the product(s) or on internal components of the product(s) in accordance with U.S. patent laws. SynQor's patents include the following:

6,545,890 6,594,159 6,894,468 6,896,526 6,927,987 7,050,309
 7,085,146 7,119,524 7,765,687 7,787,261 8,149,597 8,644,027
 9,143,042

WARRANTY

SynQor offers a two (2) year limited warranty. Complete warranty information is listed on our website or is available upon request from SynQor.

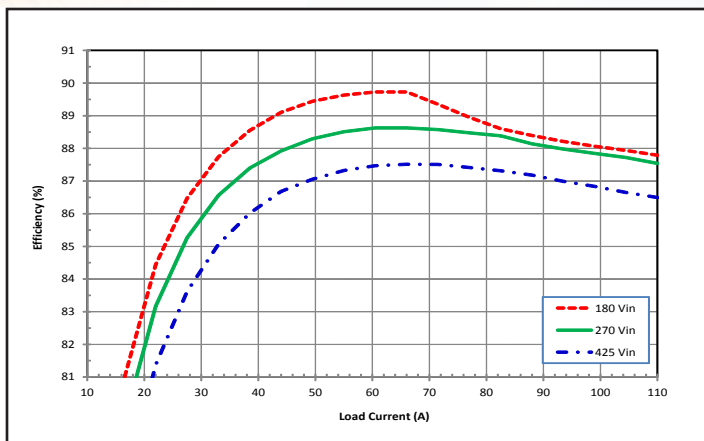


Figure 1: Efficiency at nominal output voltage vs. load current for minimum, nominal, and maximum input voltage at 25 °C.

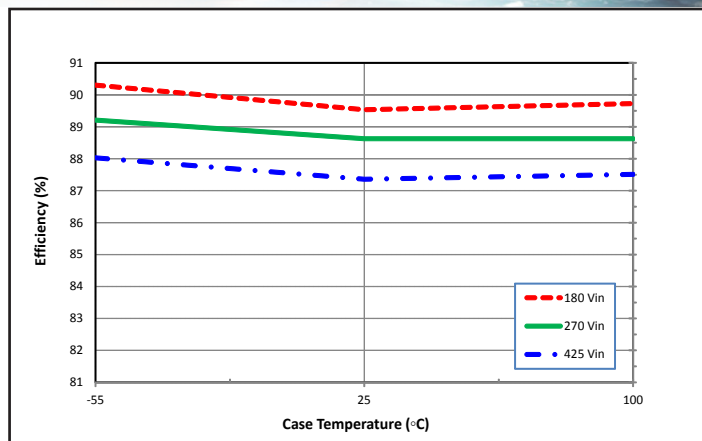


Figure 2: Efficiency at nominal output voltage and 60% rated power vs. case temperature for minimum, nominal, and maximum input voltage.

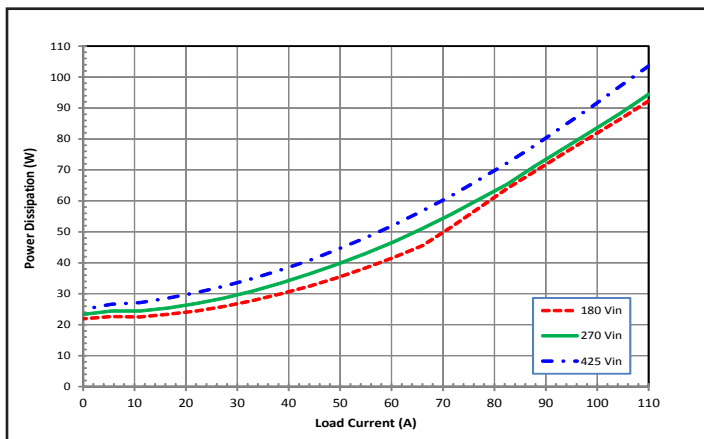


Figure 3: Power dissipation at nominal output voltage vs. load current for minimum, nominal, and maximum input voltage at TCASE=25 °C.

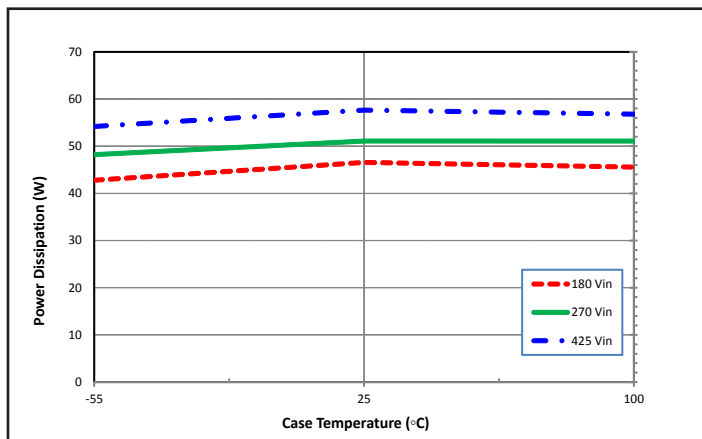


Figure 4: Power dissipation at nominal output voltage and 60% rated power vs. case temperature for minimum, nominal, and maximum input voltage.

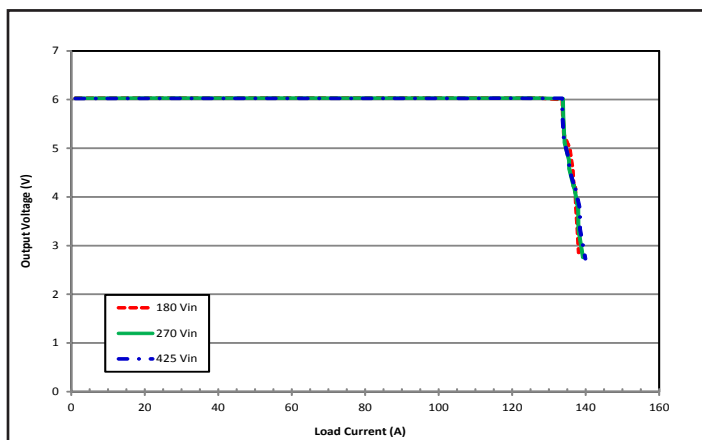


Figure 6: Output voltage vs. load current showing typical current limit curves.
See Current Limit section in the Application Notes.