

Q48SC Series

FEATURES

Electrical

- Efficiency up to 95.1%
- OTP, Input UVLO, Output OCP, OVP
- Isolation and basic insulation
- Pre-biased startup
- No minimum load required
- Remote ON/OFF
- Remote sense

Safety & Certificate

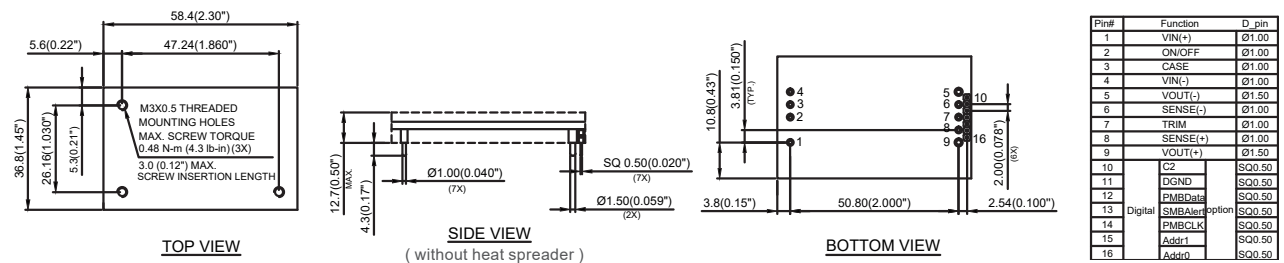
- IEC/EN/UL/CSA 62368-1
- IEC/EN/UL/CSA 60950-1

1/4
brick2:1
inputdigital
controlC[®] **AL** **US**

SPECIFICATIONS

Part Number	Input Voltage	Output Voltage	Vo trim range	Output Current	Output Power	Efficiency	Isolation Voltage	Size (LxWxH) without heat spreader
Q48SC12025	36~75V	12V	8~13.2V	25A	300W	95.1%	1500V	57.9 x 36.8 x 11.2 mm
Q48SC12033	36~75V	12V	8~13.2V	33A	400W	95.0%	1500V	57.9 x 36.8 x 11.2 mm
Q48SC12042	36~75V	12V	8~13.2V	42A	500W	95.0%	1500V	57.9 x 36.8 x 12.7 mm
Q48SC12050	36~75V	12V	8~13.2V	50A	600W	94.2%	1500V	58.4 x 36.8 x 12.7 mm

MECHANICAL DRAWING



PART NUMBERING SYSTEM

Q	48	S	C	120	50	N	R	D	H
Form Factor	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length	Pin Assignment	Option Code
Q - 1/4 Brick	48 - 36~75V	S - Single	C - Family Name	120 - 12V	25 - 25A 33 - 33A 42 - 42A 50 - 50A	P - Positive N - Negative	K - 0.110" N - 0.145" R - 0.170"	D - Digital pins A - Analog pins I - IBC pins T - Trim pins	Trim Pin Current Sharing Heat Spreader Case Pin
									H Yes No Yes No
									I No Droop Yes No
									J No No Yes No
									R Yes No Yes Yes
									S No Droop Yes Yes
									T No No Yes Yes

Note for mechanical pins option:

1. D - Digital pins: with digital pins & sense pins
2. A - Analog pins: with sense pins, without digital pins
3. I - IBC pins: without digital pins & sense pins
4. T - Trim pins: with digital pins, without sense pins