

POWER

ADO300 Series

300 Watt 1/8 Brick DC-DC Converter

Data Sheet

Total Power: 300 Watts
 (11.77 V @ 26 A)
 (5 V @ 60 A)
 (3.3 V @ 60 A)

Input Voltage: 36 - 75 Vdc

Single Output: 12 V, 5 V, 3.3 V



**DIGITAL
DC DC**

SPECIAL FEATURES

- 300 W continuous power
- Ultra high efficiency
- 36 - 75 Vdc Telecom input range
- Baseplate version for contact cooling or heatsink mounting
- Parallel and Droop current sharing
- Remote output sense
- Fully regulated output voltage
- No minimum load requirement
- Remote control function
- Low ripple and noise
- Fixed switching frequency
- High capacitive load capability
- Pre-bias start-up capability
- Excellent thermal performance
- High reliability
- RoHS 6 compliant
- UL94 V-0 materials
- Two-year warranty (consult factory for extended terms)

SAFETY

- EN62368
- CSA
- CE
- UL



Electrical Specifications

Input	12 V	5 V	3.3 V
Input voltage	36 - 75 Vdc		
Input surge	95 V / 100 mSec		
Input UVLO (typical)	Turn-on: 34 Vdc Turn-off: 32 Vdc Hysteresis: 2 Vdc		
Efficiency	95.5% (60% load)	95.2% (50% load)	93.7% (50% load)
I/O insulation	Basic insulation		
I/O isolation	1500 Vdc		
Output	12 V	5 V	3.3 V
Output voltage (Vin = 48 V)	11.82 V	5 V	3.3 V
Output current maximum	26 A	60 A	60A
Noise & ripple	70 mV pk-pk typ.	50 mV pk-pk typ.	20 mV pk-pk typ.
Overtemperature protection	Baseplate: 110 °C typ. Open frame: 125 °C hot spot typ.		
Overvoltage protection method / OCP operation	115%-150% rated output voltage/hiccup and auto restart		
Overcurrent protection method / OCP operation	110%-150% rated output current /hiccup and auto restart		
Control	12 V	5 V	3.3 V
Enable	TTL compatible (negative logic)		
Switching frequency	150 KHz fixed frequency		
Pre-bias start-up	0% - 90% Vout		
Parallel connection & droop share	Droop share		

Pin Assignments

Pin #	Name	Function	Optional
1	+Vin	Positive input voltage	
2	Remote On/Off	Remote control	
3	-Vin	Negative input voltage	
4	-Vo	Negative output voltage	
5	-Sense	Remote sense negative	Yes
6	Trim/C1	Voltage adjustment	Yes
7	+Sense	Remote sense positive	Yes
8	+Vo	Positive output voltages	
9	C2	Digital	Yes
10	Sig_Gnd	Digital	Yes
11	Data	Digital	Yes
12	SMBAlert	Digital	Yes
13	Clock	Digital	Yes
14	Addr1	Digital	Yes
15	Addr0	Digital	Yes

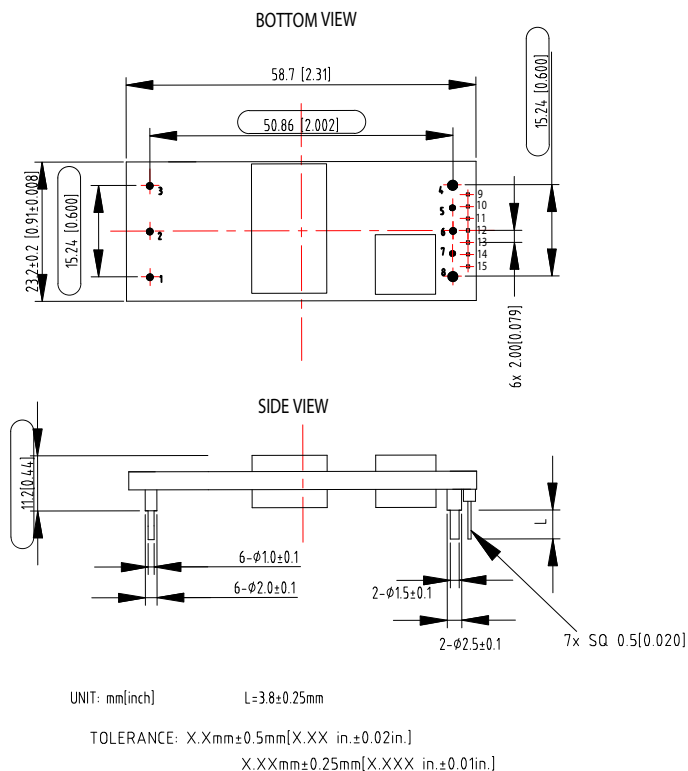
Pin Length Options

Device code suffix	Pin Length
-4	4.6 mm ± 0.25 mm
-6	3.8 mm ± 0.25 mm
-8	2.8 mm ± 0.25 mm
None	5.8 mm ± 0.25 mm

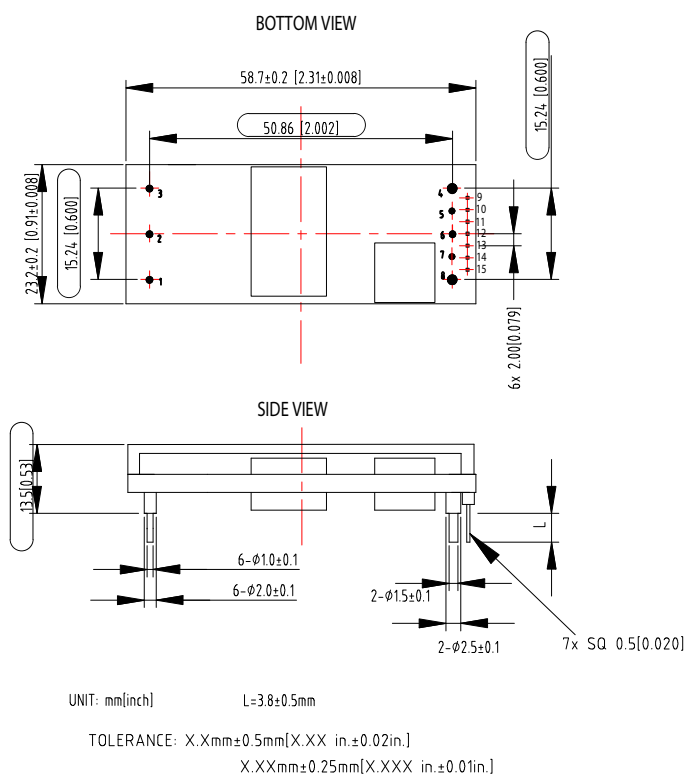
Environmental Specifications

Operating temperature	-40 to +85 °C
Storage temperature	-55 to +125 °C
MTBF	1.5 million hours

ADO300-48S12-6LI Mechanical Drawing - Open Frame Module



ADO300-48S12B-6LI Mechanical Drawing - Baseplate



Notes:

1. Dimensions within the box are critical dimensions.
2. No pin 9-15 for ADO300-48S12B-6LI; ADO300-48S12-6LI with pin 9-15.
3. Different output voltage ADO300 products have slight differences in the mechanical drawing. Please check the specified product's Technical Reference Note for more details.
4. All specifications are subject to change without notice. Mechanical drawings are for reference only.

Ordering Information

Model number	Input voltage	Output voltage set point	Output current	Efficiency
ADO300-48S12-6L	36 - 75 Vdc	11.77 Vdc	26 A	95.2% (full load)
ADO300-48S12B-6L	36 - 75 Vdc	11.77 Vdc	26 A	95.2% (full load)
ADO300-48S12-6LI	36 - 75 Vdc	11.77 Vdc	26 A	95.2% (full load)
ADO300-48S12B-6LI	36 - 75 Vdc	11.77 Vdc	26 A	95.2% (full load)
ADO300-48S05-6L	36 - 75 Vdc	5.0 Vdc	60 A	94.6% (full load)
ADO300-48S05-6LI	36 - 75 Vdc	5.0 Vdc	60 A	94.6% (full load)
ADO300-48S05B-6L	36 - 75 Vdc	5.0 Vdc	60 A	94.6% (full load)
ADO300-48S05B-6LI	36 - 75 Vdc	5.0 Vdc	60 A	94.6% (full load)
ADO300-48S05PB-6L	36 - 75 Vdc	5.0 Vdc	60 A	94.6% (full load)
ADO300-48S3V3-6L	36 - 75 Vdc	3.3 Vdc	60 A	93% (full load)
ADO300-48S3V3-6LI	36 - 75 Vdc	3.3 Vdc	60 A	93% (full load)
ADO300-48S3V3B-6L	36 - 75 Vdc	3.3 Vdc	60 A	93% (full load)
ADO300-48S3V3B-6LI	36 - 75 Vdc	3.3 Vdc	60 A	93% (full load)

Default = Negative remote control

P = Positive remote control

B = Baseplate

-6 = 3.8 mm pin length

I = PMBus interface version

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
 Tempe, AZ 85282
 USA
 +1 888 412 7832

Europe (UK)

Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX
 United Kingdom
 +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
 2 Wing Yip Street
 Kwun Tong, Kowloon
 Hong Kong
 +852 2176 3333



www.artesyn.com

Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. Specifications are subject to change without notice. © 2017 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: www.artesyn.com/power
 For support: productsupport.ep@artesyn.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9