

EC3SA

S E R I E S

NEW

3 WATT REGULATED DC-DC CONVERTERS



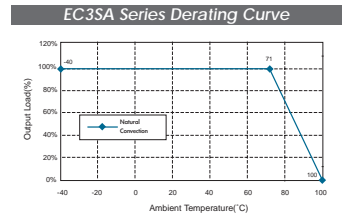
Features

- 3W Isolated Output
- SIP-8 Package
- Efficiency to 86%
- 2:1 Input Range
- Regulated Outputs
- Remote On/Off Control
- 1500VDC Isolation
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CASE
			MIN.	MAX.	NO LOAD	FULL LOAD		
EC3SA-05S33	4.5-9.0 VDC	3.3VDC	0 mA	700 mA	60 mA	632 mA	73	SIP-8
EC3SA-05S05		5VDC	0 mA	600 mA		769 mA	78	
EC3SA-05S12		12VDC	0 mA	250 mA		759 mA	81	
EC3SA-05S15		15VDC	0 mA	200 mA		741 mA	81	
EC3SA-05D05		±5VDC	±0 mA	±300 mA		769 mA	78	
EC3SA-05D12	±12VDC	±0 mA	±125 mA	741 mA	81			
EC3SA-05D15	±15VDC	±0 mA	±100 mA	741 mA	81			
EC3SA-12S33	9-18 VDC	3.3VDC	0 mA	700 mA	30 mA	253 mA	76	SIP-8
EC3SA-12S05		5VDC	0 mA	600 mA		309 mA	81	
EC3SA-12S12		12VDC	0 mA	250 mA		301 mA	83	
EC3SA-12S15		15VDC	0 mA	200 mA		298 mA	84	
EC3SA-12D05		±5VDC	±0 mA	±300 mA		305 mA	82	
EC3SA-12D12	±12VDC	±0 mA	±125 mA	301 mA	83			
EC3SA-12D15	±15VDC	±0 mA	±100 mA	298 mA	84			
EC3SA-24S33	18-36 VDC	3.3VDC	0 mA	700 mA	18 mA	125 mA	77	SIP-8
EC3SA-24S05		5VDC	0 mA	600 mA		154 mA	81	
EC3SA-24S12		12VDC	0 mA	250 mA		149 mA	84	
EC3SA-24S15		15VDC	0 mA	200 mA		147 mA	85	
EC3SA-24D05		±5VDC	±0 mA	±300 mA		156 mA	80	
EC3SA-24D12	±12VDC	±0 mA	±125 mA	149 mA	84			
EC3SA-24D15	±15VDC	±0 mA	±100 mA	147 mA	85			
EC3SA-48S33	36-75 VDC	3.3VDC	0 mA	700 mA	9 mA	63mA	77	SIP-8
EC3SA-48S05		5VDC	0 mA	600 mA		77 mA	81	
EC3SA-48S12		12VDC	0 mA	250 mA		73 mA	86	
EC3SA-48S15		15VDC	0 mA	200 mA		73 mA	86	
EC3SA-48D05		±5VDC	±0 mA	±300 mA		77 mA	81	
EC3SA-48D12	±12VDC	±0 mA	±125 mA	73 mA	86			
EC3SA-48D15	±15VDC	±0 mA	±100 mA	73 mA	86			

NOTE: 1. Nominal Input Voltage 5, 12, 24 or 48 VDC

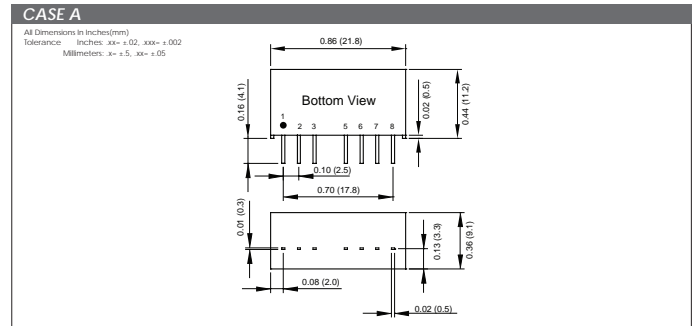
Specifications	
INPUT SPECIFICATIONS:	
Input Voltage Range	5V..... 4.5-9V 12V..... 9-18V 24V..... 18-36V 48V..... 36-75V
Input Filter	Capacitive
Remote on/off control:	
Module On	< 1.2VDC or Open Circuit
Module Off	5.5...15VDC
Module Off (input idle current)	1mA max.
OUTPUT SPECIFICATIONS:	
Voltage Accuracy	±1.5% max.
Voltage Balance (Dual)	±1.0% max.
Cross regulation (Dual)	Asymmetrical load 25%/100%..... ±5.0% max.
Transient Response: 25% Step Load Change	
Error Band	±6% Voltn nominal
Recovery Time	< 500µs
Ripple & Noise, 20MHz BW	75mV pk-pk, max.
Temperature Coefficient	±0.03%/°C
Line Regulation ¹	±0.5% max.
Load Regulation ¹	Single..... ±0.5% max. Dual..... ±1.0% max.
Output Short Circuit Protection	Continuous
GENERAL SPECIFICATIONS:	
Efficiency	See Table
Isolation Voltage	1500VDC min.
Isolation Resistance	10 ⁹ ohm min.
Switching Frequency	100kHz min.
Operating Ambient Temperature	-40°C to +85°C
De-rating, Above 71°C	Linearly to Zero power at 100°C
Case Temperature ²	100°C max.
Cooling	Natural Convection
Storage Temperature	-55°C to +125°C
Dimensions	0.86x0.36x0.44 inches(21.80x9.20x11.10 mm)
Case Material	Non-Conductive Black Plastic
Weight	4.8g



NOTE:

1. For asymmetric loading, Both channels must be at 25% load or more.
2. Measured From High Line to Low Line
3. Measured From Full Load to 10% Load
4. Maximum case temperature under any operating condition should not exceed 100°C.

Pin	PIN CONNECTION	
	Single Output	Dual Output
1	-V Input	-V Input
2	+V Input	+V Input
3	CTRL	CTRL
5	NC	NC
6	+V Output	+V Output
7	-V Output	Common
8	NC	-V Output



All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.