

FEATURES

- * 3W Isolated Output
- * Compact 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. (%)	Capacitor Load max
			MIN.	MAX.	NO LOAD	FULL LOAD		
EN3-05S33	4.5-9 VDC	3.3VDC	0 mA	700 mA	60 mA	632 mA	73	700uF
EN3-05S05	4.5-9 VDC	5VDC	0 mA	600 mA		769 mA	78	600uF
EN3-05S12	4.5-9 VDC	12VDC	0 mA	250 mA		759 mA	81	250uF
EN3-05S15	4.5-9 VDC	15VDC	0 mA	200 mA		741 mA	81	200uF
EN3-05D05	4.5-9 VDC	±5VDC	±0 mA	±300 mA		769 mA	78	300uF
EN3-05D12	4.5-9 VDC	±12VDC	±0 mA	±125 mA		741 mA	81	125uF
EN3-05D15	4.5-9 VDC	±15VDC	±0 mA	±100 mA		741 mA	81	100uF
EN3-12S33	9-18 VDC	3.3VDC	0 mA	700 mA		30 mA	253 mA	76
EN3-12S05	9-18 VDC	5VDC	0 mA	600 mA	309 mA		81	600uF
EN3-12S12	9-18 VDC	12VDC	0 mA	250 mA	301 mA		83	250uF
EN3-12S15	9-18 VDC	15VDC	0 mA	200 mA	298 mA		84	200uF
EN3-12D05	9-18 VDC	±5VDC	±0 mA	±300 mA	305 mA		82	300uF
EN3-12D12	9-18 VDC	±12VDC	±0 mA	±125 mA	301 mA		83	125uF
EN3-24D15	9-18 VDC	±15VDC	±0 mA	±100 mA	298 mA		84	100uF
EN3-24S33	18-36 VDC	3.3VDC	0 mA	700 mA	18 mA		125 mA	77
EN3-24S05	18-36 VDC	5VDC	0 mA	600 mA		154 mA	81	600uF
EN3-24S12	18-36 VDC	12VDC	0 mA	250 mA		149 mA	84	250uF
EN3-24S15	18-36 VDC	15VDC	0 mA	200 mA		147 mA	85	200uF
EN3-24D05	18-36 VDC	±5VDC	±0 mA	±300 mA		156 mA	80	300uF
EN3-24D12	18-36 VDC	±12VDC	±0 mA	±125 mA		149 mA	84	125uF
EN3-24D15	18-36 VDC	±15VDC	±0 mA	±100 mA		147 mA	85	100uF
EN3-48S33	36-75 VDC	3.3VDC	0 mA	700 mA		9 mA	63 mA	77
EN3-48S05	36-75 VDC	5VDC	0 mA	600 mA	77 mA		81	600uF
EN3-48S12	36-75 VDC	12VDC	0 mA	250 mA	73 mA		86	250uF
EN3-48S15	36-75 VDC	15VDC	0 mA	200 mA	73 mA		86	200uF
EN3-48D05	36-75 VDC	±5VDC	±0 mA	±300 mA	77 mA		81	300uF
EN3-48D12	36-75 VDC	±12VDC	±0 mA	±125 mA	73 mA		86	125uF
EN3-48D15	36-75 VDC	±15VDC	±0 mA	±100 mA	73 mA		86	100uF

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

Technische Änderungen vorbehalten / Technical changes reserved

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INPUT SPECIFICATIONS

POSITIVE LOGIC REMOTE ON/OFF CONTROL

Module ON < 1.2V or Open Circuit
Module OFF 5.5 - 15 VC

INPUT FILTER capacitive

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 1.5\%$ max

Voltage Balance (Dual) $\pm 1.0\%$ max

Cross Regulation (Dual)⁴ asymmetr. load 25%/100% $\pm 5.0\%$ max

Transient Response: 25% Step Load Change

Error Band $\pm 6.0\%$ Vout nominal

Recovery Time < 500 μ s

Ripple and noise, 20MHz BW max. 75mVpp.

Temperature Coefficient $\pm 0.03\%/C$ max

Line Regulation¹ $\pm 0.5\%$ max

Load Regulation² Single $\pm 0.5\%$ max

Dual $\pm 1.0\%$ max

Short Circuit Protection continuous

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE 1500VDC min.

ISOLATION RESISTANCE 1000 Mohm

SWITCHING FREQUENCY 100KHz typ.

OPERATING TEMPERATURE RANGE -40°C TO +85°C

DERATING, ABOVE 71°C LINEARY TO ZERO POWER AT 100 °C

COOLING Natural Convection, 20ft./min.(0.1m/s)

CASE TEMPERATURE³ 100°Cmax.

STORAGE TEMPERATURE RANGE -55°C TO +125°C

HUMIDITY 95% RH max. Non condensing

MTBF MIL-STD-217F tbd

CASE MATERIAL Non-Conductive Black Plastic

DIMENSIONS 0.86x0.36x0.44 INCHES (21.8 x 9.20 x 11.10mm)

NOTE:

1. LINE REGULATION: Measured From High Line To Low Line

2. LOAD REGULATION: Measured From Full Load To 10% Load

3. Maximum Case Temperature Under Any Operating Condition Should Not Be Exceeded 100°C

4. For asymmetric loading, both channels must be at 25% load or more

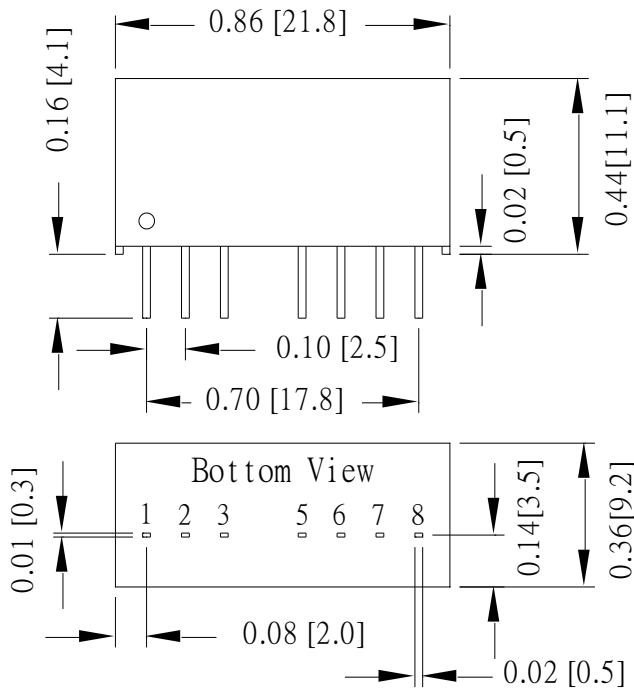
MECHANICAL SPECIFICATIONS

All Dimensions In Inches(mm)

Tolerances : Inches millimeters

X.XX±0.02 X.X±0.5

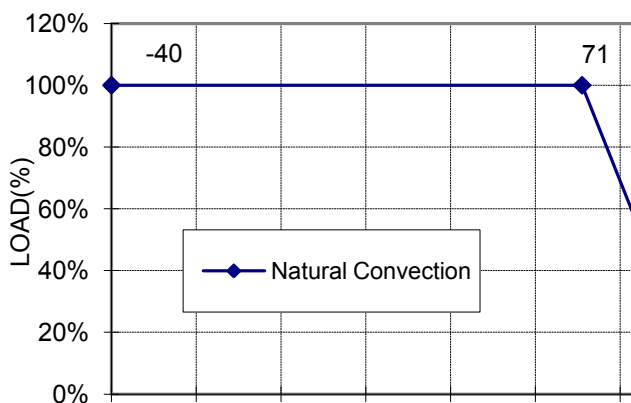
Pin ±0.002 ±0.05



PIN CONNECTION		
Pin	Single	Dual
1	-Vin	-Vin
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vo	+Vo
7	-Vo	Common
8	NC	-Vo

Power Derating

Typical Derating curve for Natural Conve



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