

### FEATURES

- \* 2W Isolated Output
- \* Compact SIP-8 Package
- \* Efficiency to 83%
- \* 2:1 Input Range
- \* Regulated Outputs
- \* Remote On/Off Control
- \* 1500VDC Isolation
- \* Continuous Short Circuit Protection
- \* Safety meets UL60950-1, EN60950-1 and IEC60950-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		EFF. (%)
			MIN.	MAX.	NO LOAD	FULL LOAD	
EN2-05S33	4.5-9 VDC	3.3VDC	0 mA	500 mA	60 mA	458 mA	72
EN2-05S05	4.5-9 VDC	5VDC	0 mA	400 mA		526 mA	76
EN2-05S12	4.5-9 VDC	12VDC	0 mA	167 mA		507 mA	79
EN2-05S15	4.5-9 VDC	15VDC	0 mA	134 mA		503 mA	80
EN2-05D05	4.5-9 VDC	±5VDC	±0 mA	±200 mA		526 mA	76
EN2-05D12	4.5-9 VDC	±12VDC	±0 mA	±83 mA		498 mA	80
EN2-05D15	4.5-9 VDC	±15VDC	±0 mA	±67 mA		503 mA	80
EN2-12S33	9-18 VDC	3.3VDC	0 mA	500 mA	30 mA	186 mA	74
EN2-12S05	9-18 VDC	5VDC	0 mA	400 mA		214 mA	78
EN2-12S12	9-18 VDC	12VDC	0 mA	167 mA		206 mA	81
EN2-12S15	9-18 VDC	15VDC	0 mA	134 mA		204 mA	82
EN2-12D05	9-18 VDC	±5VDC	±0 mA	±200 mA		208 mA	80
EN2-12D12	9-18 VDC	±12VDC	±0 mA	±83 mA		202 mA	82
EN2-12D15	9-18 VDC	±15VDC	±0 mA	±67 mA		204 mA	82
EN2-24S33	18-36 VDC	3.3VDC	0 mA	500 mA	18 mA	90 mA	76
EN2-24S05	18-36 VDC	5VDC	0 mA	400 mA		107 mA	78
EN2-24S12	18-36 VDC	12VDC	0 mA	167 mA		103 mA	81
EN2-24S15	18-36 VDC	15VDC	0 mA	134 mA		102 mA	82
EN2-24D05	18-36 VDC	±5VDC	±0 mA	±200 mA		107 mA	78
EN2-24D12	18-36 VDC	±12VDC	±0 mA	±83 mA		102 mA	81
EN2-24D15	18-36 VDC	±15VDC	±0 mA	±67 mA		102 mA	82
EN2-48S33	36-75 VDC	3.3VDC	0 mA	500 mA	9 mA	46 mA	74
EN2-48S05	36-75 VDC	5VDC	0 mA	400 mA		53 mA	78
EN2-48S12	36-75 VDC	12VDC	0 mA	167 mA		51 mA	82
EN2-48S15	36-75 VDC	15VDC	0 mA	134 mA		50 mA	83
EN2-48D05	36-75 VDC	±5VDC	±0 mA	±200 mA		53 mA	78
EN2-48D12	36-75 VDC	±12VDC	±0 mA	±83 mA		50 mA	83
EN2-48D15	36-75 VDC	±15VDC	±0 mA	±67 mA		51 mA	82

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..... ±1.5% max

Voltage Balance (Dual) ..... ±1.0% max

Cross Regulation (Dual)<sup>4</sup> asymmetr. load 25%/100%..... ±5.0% max

Transient Response: 25% Step Load Change

Error Band ..... ±6.0% Vout nominal

Recovery Time ..... < 500 µs

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

Temperature Coefficient ..... ±0.03%/C max

Line Regulation <sup>1</sup> ..... ±0.5% max

Load Regulation <sup>2</sup> ..... Single..... ±0.5% max

Dual..... ±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 85°C ..... LINEARY TO ZERO POWER AT 100 °C

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

CASE TEMPERATURE <sup>3</sup> ..... 100°Cmax.

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

HUMIDITY .....95% RH max. Non condensing

CASE MATERIAL ..... Non-Conductive Black Plastic

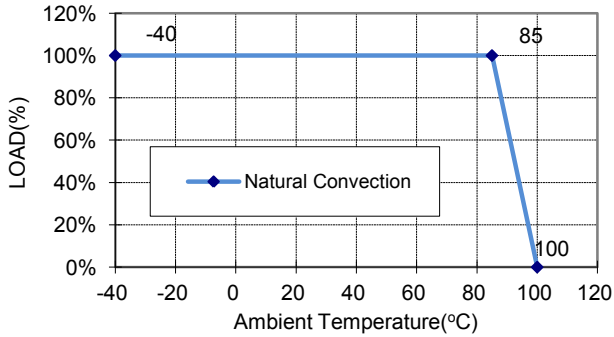
DIMENSIONS ..... 0.86x0.36x0.44 INCHES (21.8 × 9.20 × 11.10mm)

#### 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

### POWER DERATING

Typical Derating curve for Natural Convection



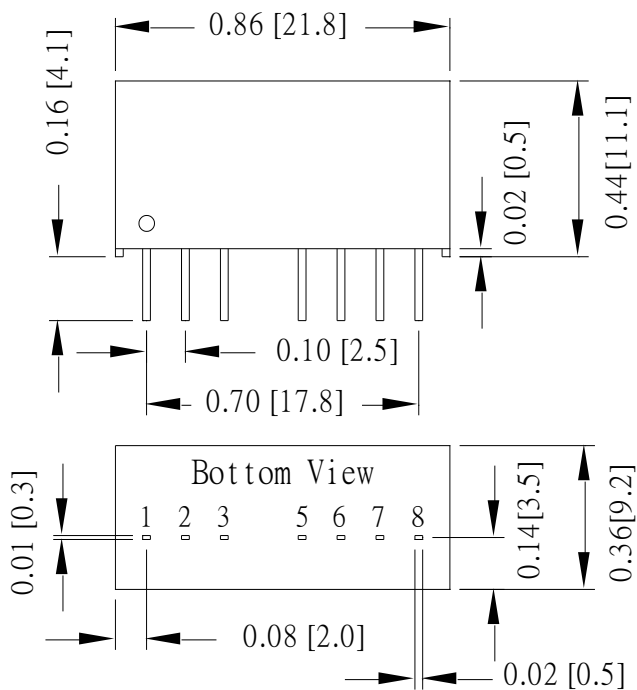
### MECHANICAL SPECIFICATIONS

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

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