

FEATURES

- * 3W Isolated Output
- * Compact SIP-8 Package
- * Efficiency to 85%
- * 4:1 Input Range
- * Regulated Outputs
- * Remote On/Off Control
- * 1500VDC Isolation
- * Continuous Short Circuit Protection
- * [Input Under Voltage Protection](#)
- * [Without Tantalum Capacitors inside](#)

NEW



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		EFF. (%)	Capacitor Load max
			MIN.	MAX.	NO LOAD	FULL LOAD		
EN3W-24S33P	9-36 VDC	3.3VDC	0 mA	700 mA	4 mA	122 mA	79	1800uF
EN3W-24S05P	9-36 VDC	5VDC	0 mA	600 mA	4 mA	154 mA	81	1000uF
EN3W-24S12P	9-36 VDC	12VDC	0 mA	250 mA	8 mA	150 mA	84	220uF
EN3W-24S15P	9-36 VDC	15VDC	0 mA	200 mA	8 mA	150 mA	84	120uF
EN3W-24D05P	9-36 VDC	±5VDC	±0 mA	±300 mA	8 mA	154 mA	81	±470uF
EN3W-24D12P	9-36 VDC	±12VDC	±0 mA	±125 mA	12 mA	150 mA	84	±100uF
EN3W-24D15P	9-36 VDC	±15VDC	±0 mA	±100 mA	12 mA	151 mA	83	±47uF
EN3W-48S33P	18-75 VDC	3.3VDC	0 mA	700 mA	3 mA	61 mA	79	1800uF
EN3W-48S05P	18-75 VDC	5VDC	0 mA	600 mA	3 mA	76 mA	82	1000uF
EN3W-48S12P	18-75 VDC	12VDC	0 mA	250 mA	5 mA	74 mA	85	220uF
EN3W-48S15P	18-75 VDC	15VDC	0 mA	200 mA	5 mA	75 mA	84	120uF
EN3W-48D05P	18-75 VDC	±5VDC	±0 mA	±300 mA	5 mA	76 mA	82	±470uF
EN3W-48D12P	18-75 VDC	±12VDC	±0 mA	±125 mA	10 mA	75 mA	84	±100uF
EN3W-48D15P	18-75 VDC	±15VDC	±0 mA	±100 mA	10mA	75 mA	83	±47uF

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

INPUT SPECIFICATIONS

INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power down	6.0V min
	24Vin power up....	7.5V max
	48Vin power down	12V min
	48Vin power up....	15V max
INPUT SURGE VOLTAGE (100ms max)	24V	50VDC max
	48V	100VDC max
POSITIVE LOGIC REMOTE ON/OFF CONTROL	Module ON	Open Circuit
	Module OFF.....	<1.2 VC
INPUT FILTER.....		capacitive

OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±1.5% max
Voltage Balance (Dual)		±1.0% max
Cross Regulation (Dual) ⁴ 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. 50mVpp.
Temperature Coefficient		±0.03%/C max
Line Regulation ¹		±0.5% max
Load Regulation ²	Single.....	±0.5% max
	Dual.....	±1.0% max
Short Circuit Protection.....		continuous
Start up time		5ms max

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	1500VDC min.	
ISOLATION RESISTANCE	1000 Mohm	
ISOLATION CAPACITANCE.....	500pF typ.	
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 TEMPERATURE ³	100°Cmax.	
STORAGE TEMPERATURE RANGE.....	-55°C TO +125°C	
HUMIDITY	95% RH max. Non condensing	
MTBF	MIL-STD-217F	tbd
EMI	conductive EMI meet EN55022 Class A & Class B (note 5)	
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
5. EN3W series meet EN55022 Class A & B with external LC-filter before the input pins to the converter (see appl note AN109)

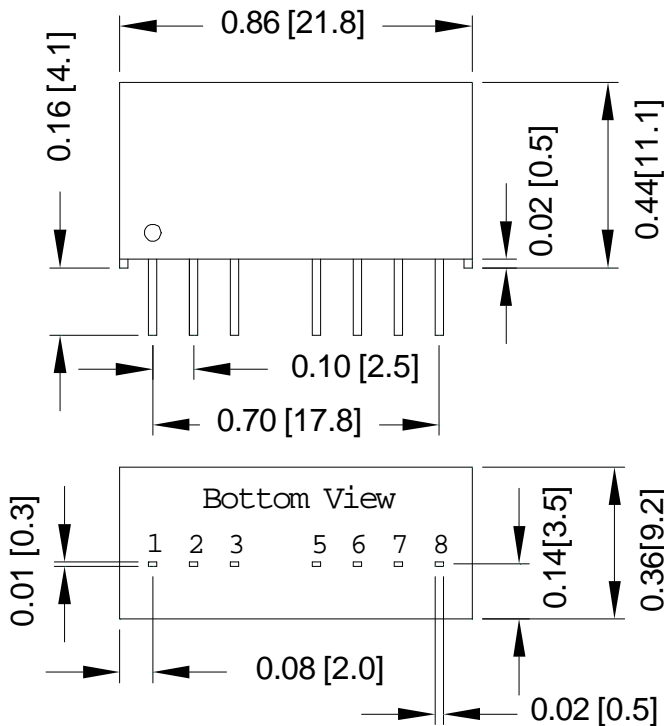
MECHANICAL SPECIFICATIONS

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

