

- **4:1 Input Range**
- **Isolation Voltage 500V/ 1500V/ 3000V**
- **Continuous short circuit Protection**
- **DIP24/SMD- Package**
- **Option: Ext. Temp. Range**



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
EU3-24S3.3	9-36 V	3.3 VDC	600 mA	15 mA	117 mA	70
EU3-24S05	9-36 V	5 VDC	600 mA	15 mA	174 mA	72
EU3-24S12	9-36 V	12 VDC	250 mA	15 mA	165 mA	76
EU3-24S15	9-36 V	15 VDC	200 mA	15 mA	165 mA	76
EU3-24D05	9-36 V	±5V	±300 mA	25 mA	179 mA	70
EU3-24D12	9-36 V	±12V	±125 mA	25 mA	174 mA	72
EU3-24D15	9-36 V	±15V	±100 mA	25 mA	174 mA	70
EU3-48S3.3	18-72 V	3.3 VDC	600 mA	7.5 mA	58 mA	70
EU3-48S05	18-72 V	5 VDC	600 mA	7.5 mA	87 mA	72
EU3-48S12	18-72 V	12 VDC	250 mA	7.5 mA	81 mA	77
EU3-48S15	18-72 V	15 VDC	200 mA	7.5 mA	81 mA	77
EU3-48D05	18-72 V	±5V	±300 mA	12 mA	88 mA	71
EU3-48D12	18-72 V	±12V	±125 mA	12mA	87 mA	72
EU3-48D15	18-72 V	±15V	±100 mA	12 mA	87 mA	72

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TECHNO-PROJEKT 2007

### INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE ..... 24V ..... 9V-36V  
 48V..... 18V-72V  
 INPUT FILTER..... PI Type

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....		±2.0% max
Voltage Balance (Dual) .....		± 1.0% max
RIPPLE AND NOISE, 20MHz BW .....	Single & ± 5V .....	max. 100mVpp
	Dual .....	max. 1%pp
Temperature Coefficient .....		±0.05%/C max
Line Regulation .....	Single/Dual <sup>1</sup> .....	±0.5%max
Load Regulation .....	Single <sup>2</sup> .....	±0.5%max
	Dual <sup>3</sup> .....	±1.0%max
Short Circuit Protection .....		continuous

### GENERAL SPECIFICATIONS

ISOLATION RESISTANCE .....		1000 MOhm
SWITCHING FREQUENCY.....		100KHz min
OPERATING TEMPERATURE RANGE.....		-25°C TO +71°C
DERATING, ABOVE 71°C .....		LINEARY TO ZERO POWER AT 100 °C
CASE TEMPERATURE <sup>6</sup> .....	(Plastic Case).....	95°Cmax.
	(Copper Case).....	100°Cmax.
STORAGE TEMPERATURE RANGE.....		-40°C TO +100°C
CASE MATERIAL .....	(Standard) <sup>5</sup> .....	Black Coated Copper with Non-Conductive Base
	(Plastic Case).....	Non-Conductive Black Plastic
DIMENSIONS .....	DIP24.....	1,25×0,80×0,40 INCHES (31.8 × 20.3 × 10.2mm)
	SMD .....	1,25×0,80×0,45 INCHES (31.8 × 20.3 × 11.4mm)

### ISOLATION VOLTAGE

500VDC min .....	Standard
1500VDC min .....	Suffix H
3000VDC min <sup>4</sup> .....	Suffix HP

#### NOTE:

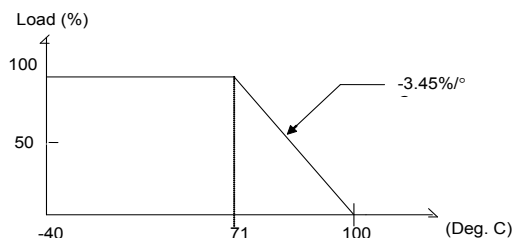
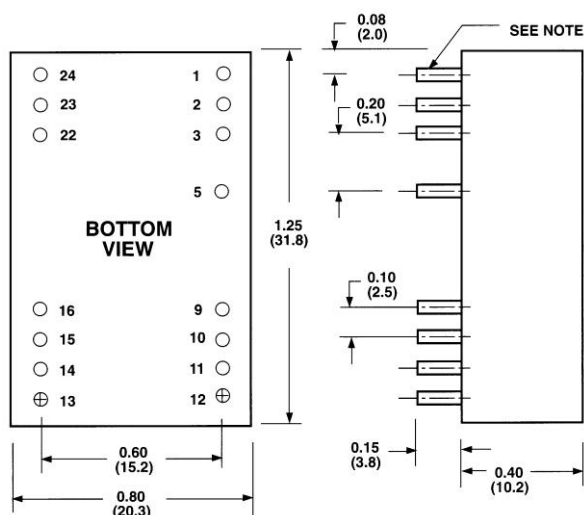
1. Measured From High Line To Low Line
2. Measured From Full Load To 10% Load
3. Measured From Full Load To 25% Load
4. Non conductive Plastic only
5. Suffix "S" to Model Number with SMD-Package (only Metal Case)
6. Maximum case temperature under any operating conditions should not exceed 100°C (Copper Case) and 95°C (Plastic Case)

### Ordering Instructions

EU3 - 24 S 12 S

Series	Input	Single Dual	Output	Option SMD (only Metal Case) P (Plastic Case) H (Viso 1500VDC) HP (Viso 3kVDC) T (Operat. Temp without Derating -40°C...+85°C)

### MECHANICAL SPECIFICATIONS DERATING CURVE



a. Operating Temperature : -25°C to 71°C ----> without derating  
 b. Operating Temperature : 71°C to 100°C ----> derating (-3.45%/°C)

NOTE: Pin Size = 0.02" (0.5mm) Ø

### PIN CONNECTION

Pin	500VDC				1500V & 3kV				
	Single Output		Dual Output		Single Output		Dual Output		
	DIP24	SMD	DIP24	SMD	Pin	DIP24	SMD	DIP24	SMD
1,24	+ Vin		+ Vin		1,24	NP	NC	NP	NC
2,23	NC		- Vout		2,3	- Vin		- Vin	
3,22	NC		Common		4,5	NP	NC	NP	NC
4	NP	NC	NP	NC	9	NC		Common	
5	NP	NC	NP	NC	10,15	NC		NC	
9	NP	NC	NP	NC	11	NC		- Vout	
10,15	- Vout		Common		12,13	NP	NC	NP	NC
11,14	+ Vout		+ Vout		14	+ Vout		+ Vout	
12,13	- Vin		- Vin		16	- Vout		Common	
16	NP	NC	NP	NC	20,21	NP	NC	NP	NC
20,21	NP	NC	NP	NC	22,23	+ Vin		+ Vin	