DATASHEET

DC/DC-Converter
EN1.5-Series
1.5Watt

- **2:1 Input Range**
- **Isolation Voltage 500V/ 1500V/ 3000V**
- **DIP24/SMD- Package**
- **Low ripple noise**

Model Number	Input Voltage	Output Voltage	Output Current	Input Current No Load	Full Load	% Eff.
EN1.5-05S05	5 V	5 VDC	300 mA	110 mA	620 mA	75
EN1.5-05S12	5 V	12 VDC	125 mA	110 mA	550 mA	79
EN1.5-05S15	5 V	15 VDC	100 mA	110 mA	550 mA	77
EN1.5-05D12	5 V	±12V	±60 mA	110 mA	550 mA	76
EN1.5-05D15	5 V	±15V	±50 mA	110 mA	550 mA	75
EN1.5-12S05	12 V	5 VDC	300 mA	40 mA	260 mA	77
EN1.5-12S12	12 V	12 VDC	125 mA	40 mA	215 mA	80
EN1.5-12S15	12 V	15 VDC	100 mA	40 mA	215 mA	79
EN1.5-12D12	12 V	±12V	±60 mA	40 mA	215 mA	77
EN1.5-12D15	12 V	±15V	±50 mA	40 mA	215 mA	79
EN1.5-24S05	24V	5 VDC	300 mA	20 mA	130 mA	79
EN1.5-24S12	24V	12 VDC	125 mA	20 mA	115 mA	80
EN1.5-24S15	24V	15 VDC	100 mA	20 mA	115 mA	82
EN1.5-24D12	24V	±12V	±60 mA	20 mA	115 mA	79
EN1.5-24D15	24V	±15V	±50 mA	20 mA	115 mA	81
EN1.5-28S05	28V	5 VDC	300 mA	20 mA	110 mA	79
EN1.5-28S12	28V	12 VDC	125 mA	20 mA	100 mA	80
EN1.5-28S15	28V	15 VDC	100 mA	20 mA	100 mA	80
EN1.5-28D12	28V	±12V	±60 mA	20 mA	100 mA	78
EN1.5-28D15	28V	±15V	±50 mA	20 mA	100 mA	78
EN1.5-48S05	48V	5 VDC	300 mA	15 mA	65 mA	79
EN1.5-48S12	48V	12 VDC	125 mA	15 mA	60 mA	80
EN1.5-48S15	48V	15 VDC	100 mA	15 mA	78 mA	80
EN1.5-48D12	48V	±12V	±60 mA	15 mA	80 mA	78
EN1.5-48D15	48V	±15V	±50 mA	15 mA	80 mA	78

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted /

TECHNO-PROJEKT GmbH • RHOENSTRASSE 3 • D - 97791 OBERSINN
TEL + 49 - (0)9356- 97 21 20 • FAX + 49 - (0)9356 – 97 21 21
www.techno-projekt.de • vertrieb@techno-projekt.de

DATASHEET

DC/DC-Converter
EN1.5-Series
1.5Watt

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE ..... ± 10%
INPUT FILTER..... PI Type

OUTPUT SPECIFICATIONS

Voltage Accuracy..... ±4.0% max
RIPPLE AND NOISE, 20MHz BW ..... max. 50mVpp
Temperature Coefficient ..... ±0.05%/C max
Line Regulation ..... ±0.3%max
Load Regulation ..... ±0.5%max
Short Circuit Protection ..... mometary

GENERAL SPECIFICATIONS

ISOLATION RESISTANCE ..... 1000 MOhm
ISOLATION CAPACITANCE 30pF
EFFICIENCY 50%
SWITCHING FREQUENCY..... 20KHz min
OPERATING TEMPERATURE RANGE..... -25°C TO +71°C
DERATING, ABOVE 71°C ..... LINEARY TO ZERO POWER AT 100 °C
CASE TEMPERATURE[6] .....(Plastic Case)..... 95°Cmax.
(Copper Case)..... 100°Cmax.
STORAGE TEMPERATURE RANGE.....-40°C TO +100°C
CASE MATERIAL .....(Standard)[5]..... 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 ..... Suffix HP

NOTE:

1. Suffix “S” to Model Number with SMD-Package (only Metal Case)
2. Maximum case temperature under any operating conditions should not exceed 100°C (Copper Case) and 95°C (Plastic Case)

Ordering Instructions

EN1.5 - 24 S 12 S

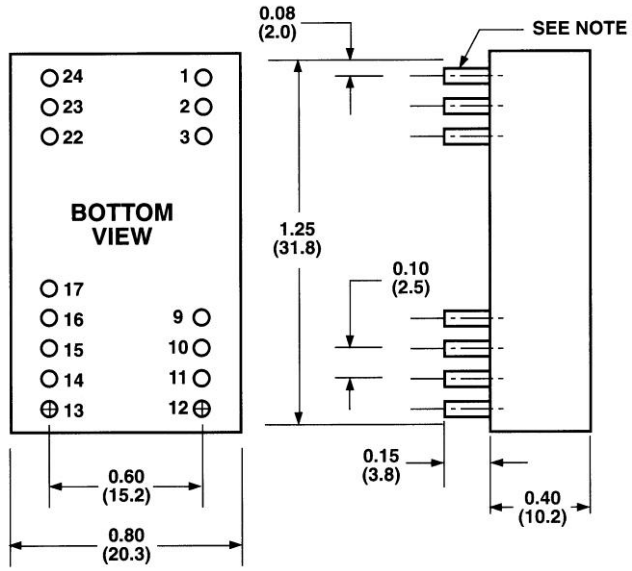
Series	Input	Single	Output	Option SMD (only Metal Case)
		Dual		H (Viso 1500VDC)
				HP (Viso 3kVDC)

TECHNO-PROJEKT GmbH • RHOENSTRASSE 3 • D - 97791 OBERSINN
TEL + 49 - (0)9356- 97 21 20 • FAX + 49 - (0)9356 – 97 21 21
www.techno-projekt.de • vertrieb@techno-projekt.de

DATASHEET

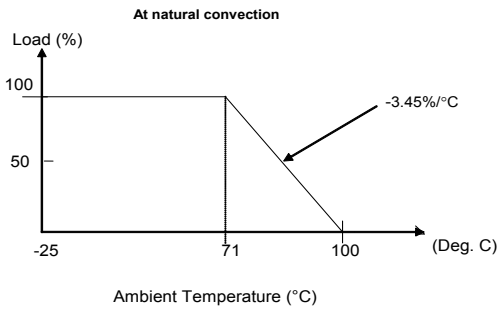
DC/DC-Converter
EN1.5-Series
1.5Watt

MECHANICAL SPECIFICATIONS



NOTE: Pin Size = 0.02” (0.5mm) Ø

DERATING CURVE



PIN CONNECTION

500VDC					1500V & 3kV				
	Single Output		Dual Output			Single Output		Dual Output	
Pin	DIP24	SMD	DIP24	SMD	Pin	DIP24	SMD	DIP24	SMD
1,24	+ Vin		+ Vin		1,2,3	+ Vin		+ Vin	
2,23	NC		- Vout		22,23,24	- Vin		- Vin	
3,22	NC		Common		4	NP	NC	NP	NC
4,5	NP	NC	NP	NC	5	NP	NC	NP	NC
9	NP	NC	NP	NC	9	NP	NC	NP	NC
10	- Vout		Common		10,11	NP	NC	Go Output	
11	+ Vout		+ Vout		12	- Vout		- TP	
12,13	- Vin		- Vin		13	+ Vout		- Vout	
14	+ Vout		+ Vout		14	NP	NC	NP	NC
15	- Vout		Common		15	NP	NC	+ Vout	
16	NP	NC	NP	NC	16	NP	NC	+ TP	
17	NP		NP		17	+ TP	NP	NP	
20,21	NP	NC	NP	NC	20,21	NP	NC	NP	NC

NP: No Pin
NC: No Connection with Pin
TP: Test Point
Go:Ground

TECHNO-PROJEKT GmbH • RHOENSTRASSE 3 • D - 97791 OBERSINN
TEL + 49 - (0)9356- 97 21 20 • FAX + 49 - (0)9356 – 97 21 21
www.techno-projekt.de • vertrieb@techno-projekt.de