

- **2:1 Input Range**
- **Efficiency to 84%**
- **Six sided shield Metal Case**
- **Remote ON/OFF**



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.
TP30-12S05	9 – 18 V	5 VDC	5000 mA	30 mA	2700 mA	77
TP30-12S12	9 – 18 V	12 VDC	2500 mA	30 mA	3150 mA	79
TP30-12S15	9 – 18 V	15 VDC	2000 mA	30 mA	3150 mA	79
TP30-12D12	9 – 18 V	±12V	±1250 mA	35 mA	3100 mA	81
TP30-12D15	9 – 18 V	±15V	±1000 mA	35 mA	3100 mA	81
TP30-12T512	9 – 18 V	5V /±12V	3/± 0.625A	35 mA	3200 mA	78
TP30-12T515	9 – 18 V	5V /±15V	3/± 0.5A	35 mA	3200 mA	78
TP30-12T5125	9 – 18 V	5V /12V/-5V	3/0.6/1A	35 mA	2940 mA	77

TP30-24S05	18 – 36 V	5 VDC	5000 mA	30 mA	1350 mA	77
TP30-24S12	18 – 36 V	12 VDC	2500 mA	30 mA	1550 mA	81
TP30-24S15	18 – 36 V	15 VDC	2000 mA	30 mA	1550 mA	81
TP30-24D12	18 – 36 V	±12V	±1250 mA	30 mA	1500 mA	84
TP30-24D15	18 – 36 V	±15V	±1000 mA	30 mA	1500 mA	84
TP30-24T512	18 – 36 V	5V /±12V	3/± 0.625A	30 mA	1580 mA	79
TP30-24T515	18 – 36 V	5V /±15V	3/± 0.5A	30 mA	1560 mA	80
TP30-24T5125	18 – 36 V	5V /12V/-5V	3/0.6/1A	30 mA	1450 mA	78

TP30-48S05	36 – 75 V	5 VDC	5000 mA	15 mA	670 mA	78
TP30-48S12	36 – 75 V	12 VDC	2500 mA	15 mA	770 mA	81
TP30-48S15	36 – 75 V	15 VDC	2000 mA	15 mA	770 mA	81
TP30-48D12	36 – 75 V	±12V	±1250 mA	20 mA	750 mA	84
TP30-48D15	36 – 75 V	±15V	±1000 mA	20 mA	750 mA	84
TP30-48T512	36 – 75 V	5V /±12V	3/± 0.625A	20 mA	790 mA	79
TP30-48T515	36 – 75 V	5V /±15V	3/± 0.5A	20 mA	780 mA	80
TP30-48T5125	36 – 75 V	5V /12V/-5V	3/0.6/1A	20 mA	725 mA	78

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TECHNO-PROJEKT 2008

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE	12Vin	9V – 18V
	24Vin	18V – 36V
	48Vin	36V – 72V
INPUT FILTER.....		PI Type
POSITIVE/NEGATIVE LOGIC REMOTE CONTROL		
	Logic Compatibility.....	Open collector TTL refer to -Input
	Modul ON.....	> 3.5V or Open Circuit
	Module OFF.....	<1.8 VDC
	Control common	referenced to -Input

GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....	500VDC max.
ISOLATION RESISTANCE	1000 MOhm
SWITCHING FREQUENCY.....	200KHz typ.
OPERATING TEMPERATURE RANGE.....	-40°C TO +71°C
DERATING, ABOVE 71°C	LINEARY TO ZERO POWER AT 100 °C
COOLING.....	Natural Convection, 20ft./min.(0.1m/s)
CASE TEMPERATURE	100°Cmax.
STORAGE TEMPERATURE RANGE.....	-55°C TO +105°C
THERMAL SHUTDOWN, CASE TEMPERATURE.....	110°C Typ.
EMI/RFI	Six-sided Continuous Shield
DIMENSIONS	2.56×3.00×0.83 INCHES (65.0 × 76.2 × 21.1mm)
CASE MATERIAL	Black Coated Copper with Non-Conductive Base

OUTPUT SPECIFICATIONS

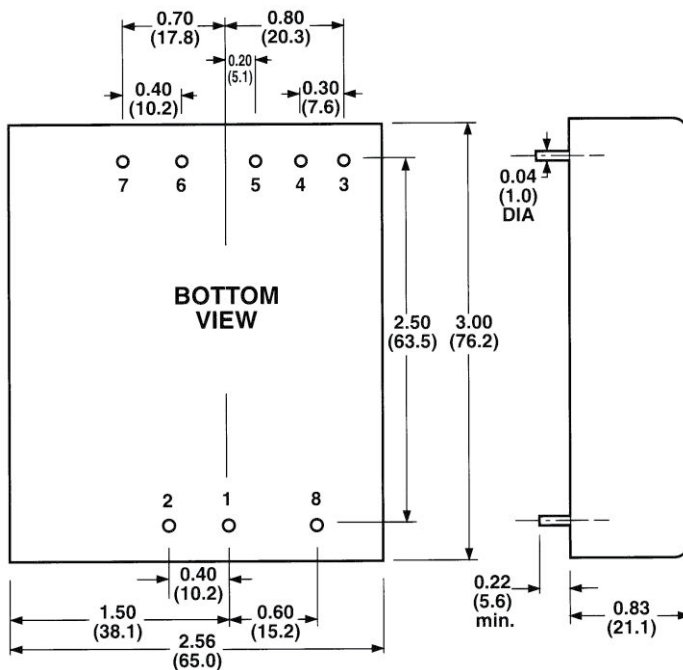
Voltage Accuracy	Single/Dual	±1.5%max.
	Dual positive	3.3V±1.5% max..... 5V±3% max.
	Triple	Main ±1.5% max..... Auxiliary ±3.0% max.
Voltage Balance(Dual)		±2.0% max.
Transient Response: 75% - 100% Step Load Change (Main Output)		
	Error Band	±5% Vout nominal, Recovery Time
		< 300us
Output Voltage Adjustment Range	Single/Dual.....	Vo±10%
	Dual Positive	±5%
Ripple & Noise, 20MHz BW (Measured with 0.1uF MLCC)		
	2.5V & 3.3V & 5V	50mVpp,max.
	12V & 15V	75mVpp, max.
	Dual ±12V	120mVpp, max.
	Dual ±15V.....	150mVpp,max.
	Dual positive +3.3V /+5V.....	100mVpp, max.
Temperature Coefficient		±0.02%/°C
Line Regulation ¹	Single/Dual	±0.5% max.
	Triple.....Main.....	±1.0% max.....Auxiliary
		±3.0% max.

Load Regulation ²	Single	±0.5% max.
	Dual	±1.0% max.
	Dual positive ³ 3.3V ±1.5% max.....	5V..... ±4% max.
	TripleMain..... ±1.0% max.....	Auxiliary ±4.0% max.
Cross Regulation ⁴	+3.3V ±1.0% max.....	+5V±4.0% max.
Over voltage Protection (Zener Diode Clamp).....	2.5V.....	3.6Vdc typ.
	3.3V.....	3.9Vdc typ..... 5V 6.2Vdc typ.
	12V.....	15Vdc typ..... 15V..... 18Vdc typ.
Output Current Limit , % Nominal Output		110% ~140%
Output Short Circuit Protection		Continuous (hiccup mode)

NOTE:

1. Measured From High Line To Low Line
2. Measured From Full Load To 25% Load
3. Maximum case temperature under any operating condition should not be exceeded 100°C
4. Maximum total power from all outputs is limited to 30watts but no output should exceed its maximum current.
5. Minimum current on each output is required to maintain specified regulation.

MECHANICAL SPECIFICATIONS

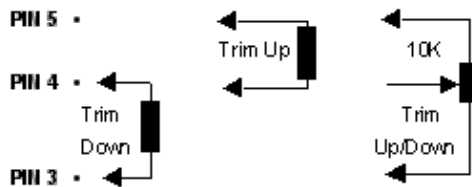


Pin	PIN CONNECTION		
	SINGLE	DUAL	TRIPLE
1	+ Vin	+ Vin	+ Vin
2	- Vin	- Vin	- Vin
3	+Sense	+ Vout	+ Vout
4	TRIM	Common	Common
5	-Sense	- Vout	- Vout
6	+ Vout	NP	+ 5V
7	- Vout	NP	NP
8	Remote ON/OFF		

TRIPLE OUTPUT LOADING TABLE (1)			
OUTPUT (Pin Nr)	Voltage	Ampere	
		Min (2)	Nom.
6	+ 5	0.5	3.0
3 & 5	+ 12 & -12	0.1	0.625
3 & 5	+ 15 & -15	0.1	0.5
3 & 5	+ 12 & -5	0.1	0.6/ 0.1

EXTERNAL OUTPUT TRIM

Output Voltage Adjust $\pm 10\%$ with fixed Resistor or External Trimpot



DERATING CURVE

