查询TEN06供应商 捷多邦，专业PCB打样工厂，24小时加急出货

POWER MATE TECHNOLOGY CO.,LTD.

TEN06 SERIES

- PACKAGE, 1.61 x 1.02 x 0.33 INCH
- NO EXTERNAL INPUT AND OUTPUT CAPACITOR NEEDED
- 2:1 WIDE INPUT VOLTAGE RANGE
- LOW RIPPLE & NOISE
- FIVE-SIDED SHIELD
- OVER CURRENT PROTECTION
- SHORT CIRCUIT PROTECTION
- LONG LIFE WITHOUT ELECTROLYTIC CAPACITOR

The TEN06 series offer 6 watts of output power from a 1.61 x 1.02 x 0.33 inch package without derating to 50ºC and without external input/output capacitor. The TEN06 series with 2:1 wide input voltage of 4.5-9, 9-18, 18-36 and 36-75VDC and features 500VAC of isolation, short-circuit protection. The safety meets to EN60950 and UL1950. All models are particularly suited to telecommunications, industrial, mobile telecom and test equipment applications.

TECHNICAL SPECIFICATION

All specifications are typical at nominal input, full load and 25ºC otherwise noted

OUTPUT SPECIFICATIONS

Maximum output power		6 Watts
Voltage accuracy	Full load and nominal Vin	± 2%
Minimum load		0%
Line regulation	LL to HL at Full Load	0.2%
Load regulation	10% to 100% FL	0.5%
Ripple and noise	50MHz bandwidth	120mVp-p, max
Maximum temperature drift		±0.02% / ºC
Transient response recovery time	25% load step change	500uS, typ
Short circuit protection		Continuous, automatics recovery
Over current protection		150%, typ.

INPUT SPECIFICATIONS

Input voltage range	5V nominal input	4.5 – 9VDC
	12V nominal input	9 – 18VDC
	24V nominal input	18 – 36VDC
	48V nominal input	36 – 75VDC
Input filter		L-C filter
Input surge voltage 100mS max	5V nominal input	15VDC
	12V nominal input	36VDC
	24V nominal input	50VDC
	48V nominal input	100VDC
Remote ON/OFF		See figure 1

OUTPUT VOLTAGE ADJUSTMENT TERMINAL(Vset) (Note1)

Model number	Open	-Vout shorted	+Vout shorted
XXS33	3.3V	3.67V	2.84V
XXS05	5V	6V	4.3V
XXS12	12V	15V	-
XXD12	±12V	±15V	-

Model number	Open	-Vout connected with resistance (2)	+Vout connected with resistance (2)
XXS33	3.3V	3.3 to 3.67V (3-1)	3.3 to 2.84V (3-2)
XXS05	5V	5 to 6V (3-3)	5 to 4.3V (3-4)
XXS12	12V	12 to 15V (3-5)	-
XXD12	±12V	±12 to ±15V (3-6)	-

GENERAL SPECIFICATIONS

Efficiency			See table
Isolation voltage	Input to Output Input to Case Output to Case		500 Vac
Isolation resistance	Input to Output Input to Case Output to Case	DC500V	50M ohms
Isolation capacitance			300 pF,max
Safety standard pending			IEC60950, J60950, UL60950, EN60950
Switching frequency	Full load to No load		100 to 1500 KHz
Case material			Metal case
Base material			None
Weight			20.0g (0.71oz)
Dimension			1.61 x 1.02 x 0.33 Inch (41 x 25.8 x 8.5 mm)
MTBF (Note 4)			650Fit (1500000hrs, 100% Load)

ENVIRONMENTAL SPECIFICATIONS

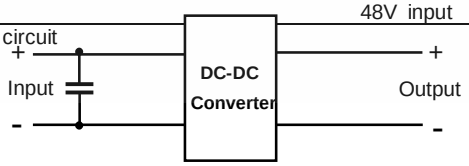
Operating temperature range (with derating)	-20ºC to +70ºC
Storage temperature range	-40ºC to +85ºC
Cooling	Nature convection
Thermal shock	MIL-STD-810D
Vibration	At no operation, 10~55~10Hz (sweep for 15min.) amplitude 1.5mm constant (maximum 9G X, Y, Z 2hrs each)
Shock	100G
Operating humidity range	20% to 95% RH
Storage humidity range	20% to 95% RH

EMC CHARACTERISTICS

Meet EN55022 classes A recommend circuit with external capacitor filter at input (Note 5)

5V input	220uF/16V
12V input	220uF/25V
24V input	100uF/50V
48V input	100uF/100V

EMC external circuit



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6WATTS OUTPUT DC-DC CONVERTER

Model Number	Input Range	Output Voltage	Output Voltage Range	Output Current	Input Current (6)	Eff (7) (%)	Capacitor(8) Load max
TEN06-05S33	4.5 – 9 VDC	3.3 VDC	2.84 – 3.67 VDC	1200 mA	1212 mA	70	6600 uF
TEN06-05S05	4.5 – 9 VDC	5 VDC	4.3 – 6 VDC	1000 mA	1429 mA	74	3000 uF
TEN06-05S12	4.5 – 9 VDC	12 VDC	12 – 15 VDC	500 mA	1622 mA	78	1400 uF
TEN06-05D12	4.5 – 9 VDC	±12 VDC	±12 – ±15 VDC	±250 mA	1667 mA	76	±510 uF
TEN06-12S33	9 – 18 VDC	3.3 VDC	2.84 – 3.67 VDC	1500 mA	604 mA	73	6600 uF
TEN06-12S05	9 – 18 VDC	5 VDC	4.3 – 6 VDC	1200 mA	658 mA	80	3000 uF
TEN06-12S12	9 – 18 VDC	12 VDC	12 – 15 VDC	500 mA	617 mA	85	1400 uF
TEN06-12D12	9 – 18 VDC	±12 VDC	±12 – ±15 VDC	±250 mA	617 mA	85	±510 uF
TEN06-24S33	18 – 36 VDC	3.3 VDC	2.84 – 3.67 VDC	1500 mA	286 mA	77	6600 uF
TEN06-24S05	18 – 36 VDC	5 VDC	4.3 – 6 VDC	1200 mA	321 mA	82	3000 uF
TEN06-24S12	18 – 36 VDC	12 VDC	12 – 15 VDC	500 mA	309 mA	85	1400 uF
TEN06-24D12	18 – 36 VDC	±12 VDC	±12 – ±15 VDC	±250 mA	309 mA	85	±510 uF
TEN06-48S33	36 – 75 VDC	3.3 VDC	2.84 – 3.67 VDC	1500 mA	143 mA	77	6600 uF
TEN06-48S05	36 – 75 VDC	5 VDC	4.3 – 6 VDC	1200mA	165 mA	80	3000 uF
TEN06-48S12	36 – 75 VDC	12 VDC	12 – 15 VDC	500 mA	155 mA	85	1400 uF
TEN06-48D12	36 – 75 VDC	±12 VDC	±12 – ±15 VDC	±250 mA	155 mA	85	±510 uF

Note

1. The follow output voltage can be outputted by connecting this terminal to an output + or – terminal. Unless the output voltage is adjusted, this terminal should be open.
2. In addition, the voltage can be adjusted not by shorting these terminals, but by connecting them to resistances as shown below.
3. Arithmetic expression connected resistance: R (KΩ)
   3-1 Vo=(3.3*R+36.7)/(R+10) 3-2 Vo=(3.3*R+36.7)/(R+12.92)
   3-3 Vo=2.5*[2+2.7/(R+6.8)] 3-4 Vo=2.5*[2-2.7/(R+9.5)]
   3-5 Vo=2.5+9.5(R+10.9)/(R+.2)
   3-6 Vo=2.5+22*(R+12.7)/(R+10)(Between two outputs)
4. Bellcore TR-NWT-000332. Case1:50% Stress, temperature at 40ºC. (Ground fixed and controlled environment)
5. The filter capacitor recommended use " CHEMICON " KMF series or equivalent impedance at 0.16 ~ 0.33Ω (100KHz 20℃)
6. Maximum value at nominal input voltage and full load.
7. Typical value at nominal input voltage and full load.
8. Test by minimum Vin and constant resistor load.

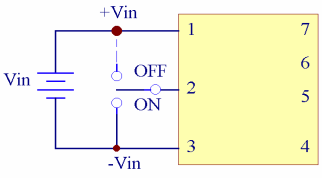
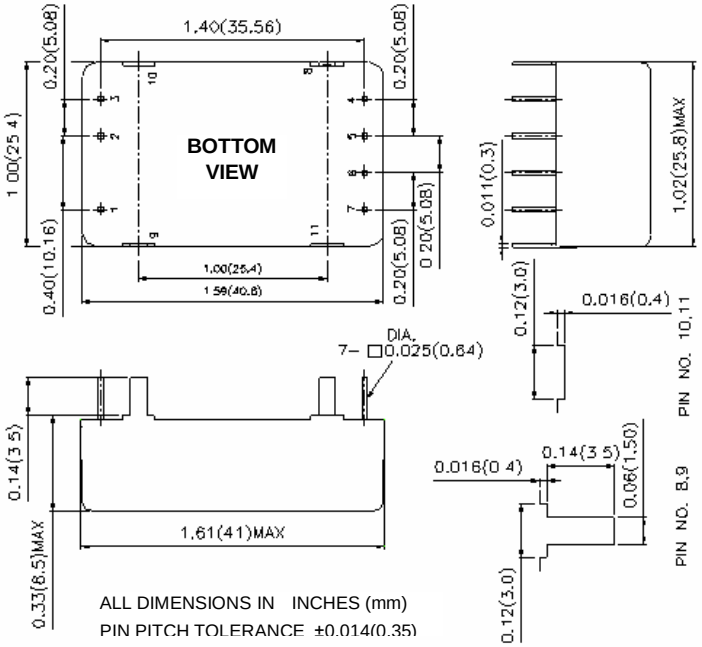
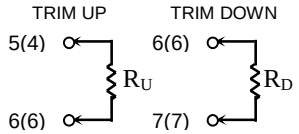


Figure 1

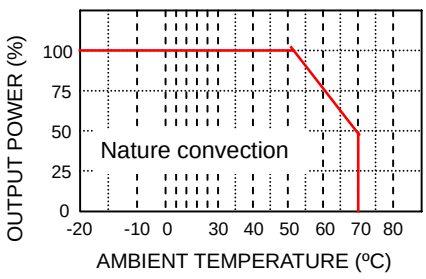


EXTERNAL OUTPUT TRIMMING

Output can be externally trimmed by using the method shown below.
( ) for dual output trim



Derating Curve



PIN CONNECTION		
PIN	SINGLE	DUAL
1	+ Vi	+ Vi
2	Ctrl	Ctrl
3	- Vi	- Vi
4	NC	- Vo
5	- Vo	COM
6	Vset	Vset
7	+ Vo	+ Vo