

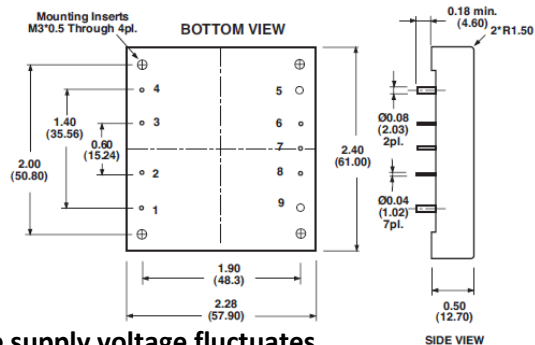


Power Conditioner 12 VDC- 12 VDC DC-DC Power Supply KT-DC12 & PS-DC12 by Dotworkz, Inc.

**50 Watt Output 12 VDC DC-DC
Power Conditioner with Half Brick Module**

Half Brick Pin-Out

Input Range: 9 – 18 VDC
 No Load Input Current: 50 ma
 Full Load Input Current: 4.95 Amps @ 12 VDC
 Rated Output: 50 Watts @ 12 VDC
 Max. Output Current: 4.16 Amps
 Efficiency: 84%
 Dimensions: 3.1" x 2.5" x 0.5" (L x W x H)
 PCB Mounting: 2.8"l x 2.2"w O.C., Hole dia. 0.170"
 Weight: 0.24 lbs.

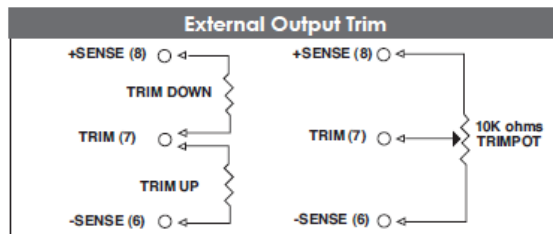
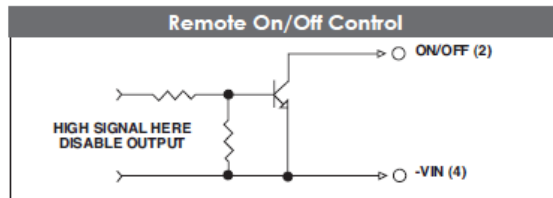


Used for applications to provide level 12 VDC voltage where supply voltage fluctuates.

Ideal for:

- * Mobile NVR Applications such as Xero NVR
- * Wireless Radios to provide regulation
- * UPS or Battery Power applications to provide 12 VDC regulation
- * Regulating "Dirty" Power Sources
- * KT-DC12 includes Internal Mounting Bracket & Hardware for D-Series Housing

Specifications	
INPUT SPECIFICATIONS:	
Input Voltage Range.....	12V.....9-18V 24V.....18-36V 48V.....36-75V
Undervoltage lockout	12Vin power up.....8.8V power down.....8V 24Vin power up.....17V power down.....16V 48Vin power up.....34V power down.....32.5V
Positive Logic Remote ON/OFF ^{1,4}	PI Type
Input Filter	PI Type
OUTPUT SPECIFICATIONS:	
Voltage Accuracy :	±1% max.
Transient Response :25% Step Load Change.....	<500µ sec.
External Trim Adj. Range	±10%
Ripple & Noise, 20MHz BW, 2.5V & 3.3V & 5V.....	20mV RMS., max. 75mV pk-pk, max. 12V & 15V.....30mV RMS., max. 100mV pk-pk, max. 24V.....100mV RMS., max. 240mV pk-pk, max.
Temperature Coefficient.....	±0.03%/°C
Short Circuit Protection.....	Continuous
Line Regulation ¹	±0.2% max.
Load Regulation ²	±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....	115-140%
Current Limit	110% ~150% Nominal Output
GENERAL SPECIFICATIONS:	
Efficiency.....	See Table
Isolation Voltage	Input/Output.....1500VDC min. Input/Case.....1500VDC min. Output/Case.....1500VDC min.
Isolation Resistance	10 ⁹ ohm min.
Switching Frequency	{12/24}Vin.....400KHz, Typ. 48Vin.....300KHz, Typ.
Operating Case Temperature	-40°C to 100°C
Storage Temperature	-55°C to +105°C
Thermal Shutdown, Case Temp.	100°C Typ.
Dimensions	2.28x2.40x0.50 inches (57.9x61.0x12.7 mm)
Case Material.....	Aluminum
Weight.....	.88g



PIN CONNECTION	
Pin	Function
1	+V Input
2	ON/OFF
3	CASE
4	-V Input
5	-V Output
6	-Sense
7	Trim
8	+Sense
9	+Vout

NOTE:
 1. Measured From High Line to Low Line.
 2. Measured From Full Load to Zero Load.
 3. Logic Compatibility Open Collector ref. to -Input.
 Module ON Open Circuit
 Module OFF <0.8Vdc
 4. Suffix 'N' to the Model Number with Negative Logic Remote ON/OFF.