

# 12V Step Down Series

DC TO DC Power Converter

The Tech9 Corporation 12V Step Down Series DC to DC Power Converter is an economical Power Converter that features accurate DC output that is short circuit tolerant with wide input voltage range suitable for a variety of power sources. This series is useful for a wide range of applications. It comes in a compact package that can be conveniently mounted virtually anywhere.

- Non floating design
- Buck-boost design
- Short circuit tolerant
- Small size
- Wide temperature range, 0°C to 70°C
- Operates on DC input over a wide range of source voltages, 7V to 70V
- Available in a range of output voltages: 3, 3.3, 5, 6, 9, 12, and 15 volt

#### AVAILABLE OPTIONS (Call factory)

- Automotive surge and transient tolerant ("load dump") to SAE J1455 and ISO 7637-2
- Ferrite bead noise suppression
- Extended Temperature, -40°C to +85°C

### Absolute Maximum Ratings:

Subjecting the unit to stresses beyond these limits may damage the unit.

Input Voltage	-1000	70	Volts
(With Load Dump Option)	-70	70	Volts
Temperature Operating Storage	0 -40	70 70	°C °C

### Electrical Specifications:

All specifications are for an input of +24 volts dc 20 C and 0.5 amp load unless otherwise indicated.

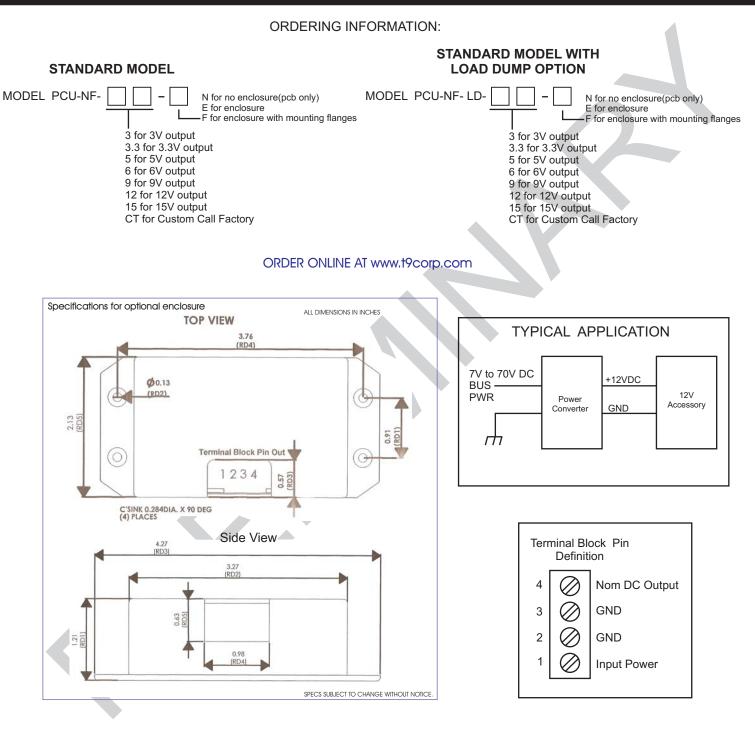
All specifications subject to change without notice. Refer to LM5118 spec sheet for additional operating details (Note: does not use "hic-up" mode)

Refer to LMS 116 spec sheet for additional ope	Min	Typical	Max	Comments
Output Voltage	Nom -2%	Nom	Nom +2%	No load voltage
Nom is one of 3, 3.3, 5, 6, 9,12 or 15 volts	Nom -5%	Nom -3%	Nom	Voltage at 1 amp load
Output Current		1.2		Amps short circuit
	1.0		1.1	Amps when loaded to 90% of nom output V
VOUT/VIN Ratio			6	
Input Voltage Range (With Load Dump Option)	7 7		70 50	Volts,DC Volts,DC



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#### 12V Step Down DC to DC Series Power Converter **Limited Warranty**

Your Tech9 Power Converter is warranted against defective material or workmanship for a period of one full year from date of purchase. This warranty is void if the product has been tampered with, mistreated, misapplied or if the defect is related to servicing or parts not supplied by Tech9 Corporation. Tech9 Corporation is not responsible for consequential damage. If our inspection shows that the trouble was caused by defective parts or workmanship, we will make all repairs or supply a replacement at our option, free of charge and return prepaid to you. Repairs made necessary by normal wear, abuse or out (i) and called by biolectric parts of Normanian, in with marked in repairs of separation in trouble should develop, please do the following: (i) Call or email for a Return Materials Authorization Number, shipments without an RMA# will not be accepted at our Service Center (2) Enclose the Original Sales Receipt with your product.

A) Plack the product carefully prior to shipment to prevent further damage in transit. Make sure the Original Sales Receipt is enclosed.
4) Return the product with the Original Sales Receipt, prepaid shipping, direct to: Tech9 Corp. Service Center RMA #\_\_\_\_\_\_\_, 5613 St. Stephen St., Mounds View, MN 55112