

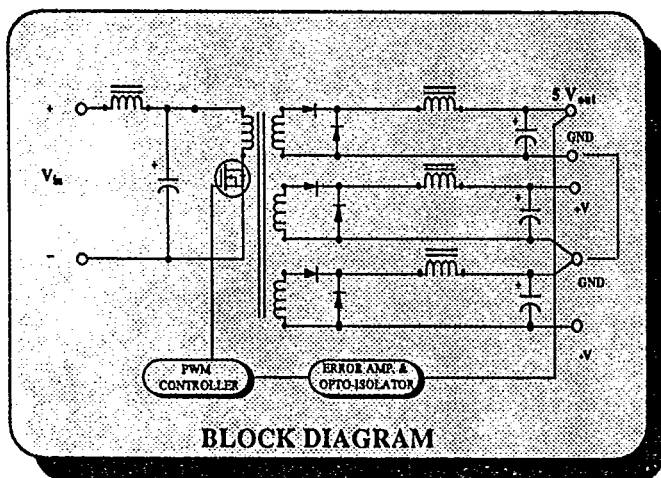
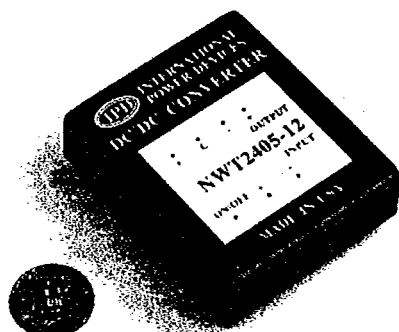


15 WATT

T-57-11

NWT

SERIES



FEATURES:

- EFFICIENCY UP TO 82%
- SIX-SIDED SHIELDING
- REMOTE ON/OFF CONTROL
- 2:1 WIDE INPUT VOLTAGE RANGE

APPLICATIONS:

- BATTERY OPERATED EQUIPMENT
- TELECOMMUNICATIONS
- PROCESS CONTROL EQUIPMENT
- TRANSPORTATION

The NWT Series is a broad line of high performance, high efficiency, triple output, Pulse Width Modulated (PWM) DC/DC converters encapsulated in a metal case with six-sided EMI/RFI shielding. By using Current Mode Control technology, all models operate at 100KHz highly efficiently and virtually independent of load & line. A 2:1 input voltage range is specifically designed to provide telecommunication & transportation industries with a low cost/high performance alternative DC/DC converter.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range

12 VDC Input Model	9-18 VDC
24 VDC Input Model	18-36 VDC
48 VDC Input Model	36-72 VDC

Input Filter LC Filter

Reverse Voltage Protection Internal Shunt Diode
(External Input Fuse Recommended)

OUTPUT SPECIFICATIONS

Voltage Accuracy, 5V outputs ±2%, max.

12 and 15V outputs ±3%, max.

Load Regulation, Min to Nom with Nom on Other Outputs

Output#1 ±3%, max.

Output#2 ±4%, max.

Output#3 ±2%, max.

Line Regulation, LL-HL ±0.5%, max.

Ripple and Noise, 20 MHz BW 75 mVp-p, 3 mVRMS

Temperature Coefficient ±0.02%/°C, max.

Overvoltage Protection All Models

REMOTE ON/OFF CONTROL

Control Voltage Referenced to Input Minus

Compatibility CMOS, TTL or Relay

On-Control >5.5 VDC or Open Circuit

Off-Control <1.8 VDC

GENERAL SPECIFICATIONS

Remote On/Off Control All Models

Efficiency FL >75%

Isolation Voltage 500 VDC, min.

Isolation Resistance 1 x 10⁹ Ohms, min.

Switching Frequency 100 KHz, typ.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range -25°C to +71°C

Derating None

Storage Temperature Range -55°C to +105°C

EMI/RFI Six-Sided Continuous Shielding

Cooling Free-Air Convection

PHYSICAL SPECIFICATIONS

Dimensions 2.56 x 3.00 x 0.83 Inches
(65 x 76.2 x 21.1 mm)

Weight 9.0 Oz. (250 g.)

Case Material Black Coated Metal

(With Non-Conductive Header)

TRIPLE OUTPUTS

INTERNATIONAL
POWER DEVICES

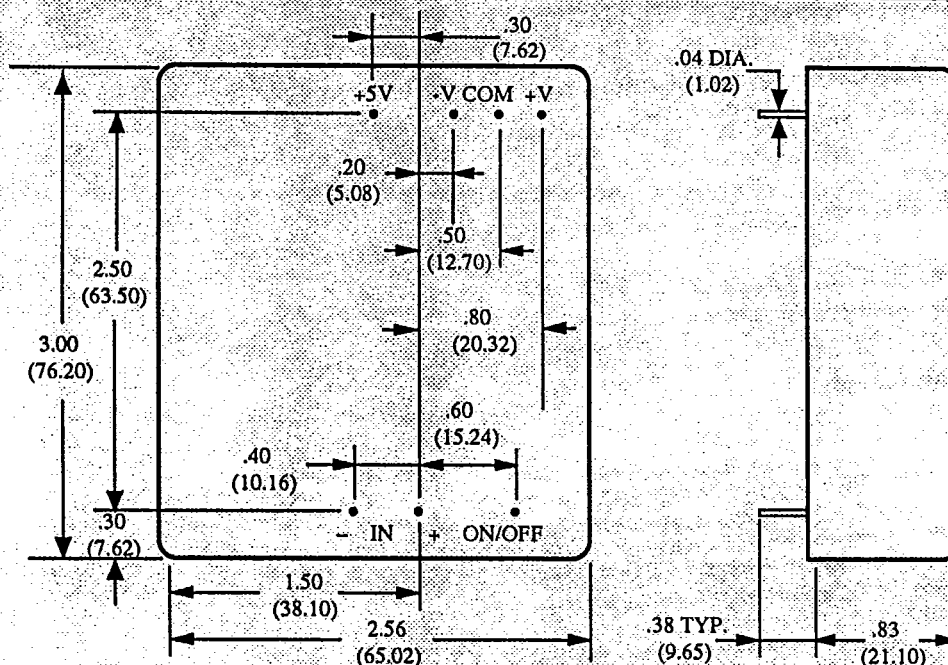


INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE	LOAD	
9-18VDC	+5VDC	+1500mA	50mA	1600mA	78	±0.5%	±3%	NWT1205-12
	±12VDC	±310mA						
	+5VDC	+1500mA	50mA	1500mA	78	±0.5%	±3%	NWT1205-15
	±15VDC	±250mA						
	+5VDC	+1500mA	50mA	1600mA	78	±0.5%	±3%	NWT1212-05
	+12/-5VDC	310/500mA						
18-36VDC	+5VDC	+1500mA	30mA	750mA	80	±0.5%	±3%	NWT2405-12
	±12VDC	±310mA						
	+5VDC	+1500mA	40mA	780mA	80	±0.5%	±3%	NWT2405-15
	±15VDC	±250mA						
	+5VDC	+1500mA	40mA	780mA	80	±0.5%	±3%	NWT2412-05
	+12/-5VDC	310/500mA						
36-72VDC	+5VDC	+1500mA	30mA	380mA	82	±0.5%	±3%	NWT4805-12
	±12VDC	310/500mA						
	+5VDC	+1500mA	30mA	380mA	82	±0.5%	±3%	NWT4805-15
	±15VDC	±250mA						
	+5VDC	+1500mA	30mA	380mA	82	±0.5%	±3%	NWT4812-05
	+12/-5VDC	310/500mA						

ALL DIMENSIONS IN INCHES (MM)

Specifications Subject to Change Without Notice.

OUTPUT LOADING REQUIREMENT	OUTPUT	VOLTAGE	MIN.	NOM.	MAX.
	1	+5	250mA	1.5A	2.0A
	2 & 3	±12	100mA	310mA	500mA
	2 & 3	±15	100mA	250mA	500mA
	2 & 3	+12/-5	100/100mA	310/500mA	500/500mA



For Optional MATING SOCKET, Refer to Accessories Page. All Mechanical Tolerances are ±0.020"

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