

- 4:1 Input Range
- Ultra Compact 1x1" Footprint
- 1600V Isolation
- Over Voltage & Over Current Protection
- Adjustable Output Voltage
- Remote On/Off
- High Efficiency up to 89%
- -40 to +105 °C Operational Temperature Range



### Specification (typical values shown)

Input Ranges.....	9~36 Volts, 18-75 Volts
Outputs.....	Single or dual outputs available (see table below)
Line Regulation.....	+/-0.2%
Load Regulation.....	+/-0.5% for single O/P. Duals are +/-1% max
Efficiency.....	See table for each model
Overload Protection.....	170% of full load typical
Short Circuit Protection.....	Continuous, auto-recovery (hiccup)
Isolation Voltage.....	Input to Output: 1600 VDC Input & Output to case: 1600 VDC
Operating Temperature.....	-40 to +66°C @ full load, derates to zero at 105°C.
Storage Temperature.....	-40 to +125 °C
Case Material.....	Nickel coated Copper, non conductive base
Switching Frequency.....	375 kHz typical
Ripple & Noise.....	100 mV pk-pk (20 MHz bandwidth)
Radiated Emissions.....	EN55022 Class A
Conducted Emissions.....	EN55022 Class A (see notes)
Safety.....	IEC/EN60950-1 (designed to meet)
MTBF.....	>560 khrs (MIL-HDBK-217F) calculated

### Models and Ratings

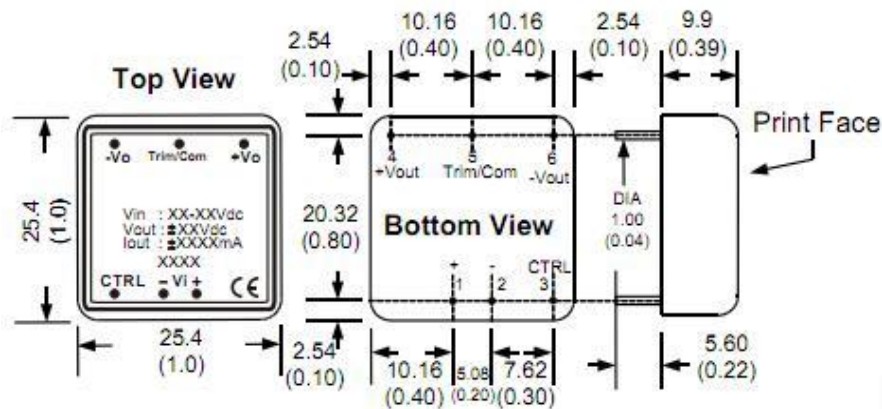
Model (9-36V input)	Model (18-75V input)	Output (VDC)	Output Current	Efficiency
<b>Single Output Units</b>				
ENW15-24S3R3	ENW15-48S3R3	3.3 V	4000 mA	84~86%
ENW15-24S05	ENW15-48S05	5.0 V	3000 mA	86~87%
ENW15-24S12	ENW15-48S12	12.0 V	1300 mA	87~88%
ENW15-24S15	ENW15-48S15	15.0 V	1000 mA	88~89%
<b>Dual Output Units</b>				
ENW15-24D5	ENW15-48D5	+/-5.0 V	+/-1500 mA	84~85%
ENW15-24D12	ENW15-48D12	+/-12.0 V	+/-625 mA	87~88%
ENW15-24D15	ENW15-48D15	+/-15.0 V	+/-500 mA	88~89%

**For mechanical data and pinout, see next page**

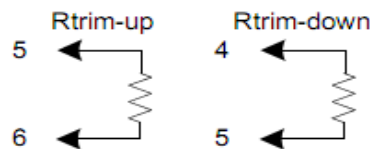
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## Mechanical Details and Pin-Out



Output voltage can be trimmed by using the method shown below. (Single output models only)



Pin	Function	Function
	Single O/P	Dual O/P
1	+V in	+V in
2	-V in	-V in
2	CTRL	CTRL
4	+V out	+V out
5	Trim	Com
6	-V out	-V out

Trim Resistor Values (approx.)		
Model Number	Trim Up 10%	Trim Down 10%
ENW15xxS3V3	8kΩ	10kΩ
ENW15xxS05	10kΩ	5kΩ
ENW15xxS12	20kΩ	7kΩ
ENW15xxS15	20kΩ	6kΩ

Remote on/off (positive logic)(6)  
 On: 3~12Vdc or open circuit  
 Off: 0~1.2Vdc or short pins 2 & 3  
 Off idle current: 5 mA (typical)

### Notes:

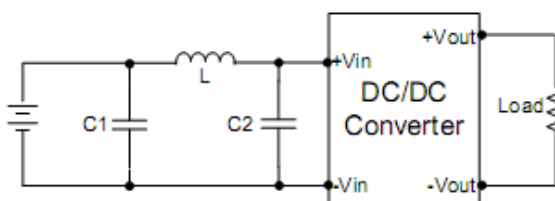
The remote on/off pin is referenced to -V in (Pin 2).

The input filter components (C1, C2 & L) are used to help meet conducted emission requirements and should be mounted as close as possible to the module and lead lengths minimised.

An external filter capacitor is required if the module has to meet EN61000-4-4 and EN61000-4-5

Suggested filter capacitor: Nippon chemi-con KY series 220 uF/100 V

### Input Filter



Model	C1	L	C2
ENW15-24xxxxxx	1210,220uF/100V	12 uH	1210,220uF/100V
ENW15-48xxxxxx	1210,220uF/100V	12 uH	1210,220uF/100V

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