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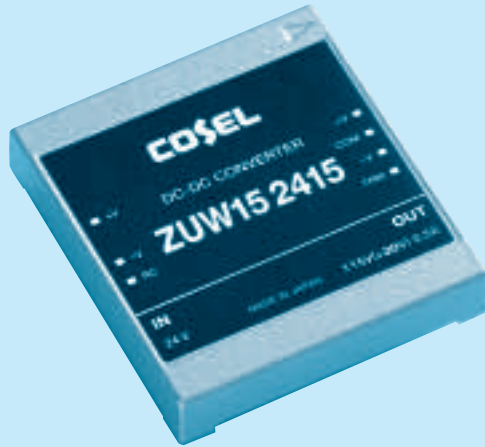
## ZUW15



### Features

- UL recognized, TV approved, CSA certified
- Isolated between input-output
- Thin profile
- Built-in Over Current Protection
- RoHS Compliant

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
ZUW150512	DC 4.5 - 9	14.4	-12 - 24V -0.6 - 0.6A
ZUW150515	DC 4.5 - 9	15	-15 - 30V -0.5 - 0.5A
ZUW151212	DC 9 - 18	15.6	-12 - 24V -0.6 - 0.65A
ZUW151215	DC 9 - 18	15	-15 - 30V -0.5 - 0.5A
ZUW152412	DC 18 - 36	15.6	-12 - 24V -0.6 - 0.65A
ZUW152415	DC 18 - 36	15	-15 - 30V -0.5 - 0.5A
ZUW154812	DC 36 - 72	15.6	-12 - 24V -0.6 - 0.65A
ZUW154815	DC 36 - 72	15	-15 - 30V -0.5 - 0.5A



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage

MODEL	ZUW150512	ZUW150515	ZUW151212	ZUW151215	ZUW152412	ZUW152415	ZUW154812	ZUW154815
MAX OUTPUT WATTAGE[W]	14.4	15.0	15.6	15.0	15.6	15.0	15.6	15.0
DC OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24
	CURRENT[A]	0.6	0.5	0.65	0.5	0.65	0.5	0.65

## SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

	MODEL	ZUW150512	ZUW150515	ZUW151212	ZUW151215	ZUW152412	ZUW152415	ZUW154812	ZUW154815	
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 75		
	CURRENT[A]	*1 3.56typ	3.70typ	1.57typ	1.51typ	0.78typ	0.75typ	0.39typ	0.38typ	
	EFFICIENCY[%]	*1 81typ	81typ	83typ	83typ	83typ	83typ	83typ	83typ	
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	
	CURRENT[A]	0.60	0.50	0.65	0.50	0.65	0.50	0.65	0.50	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max	
	RIPPLE[mVp-p]	*2 120max	120max	120max	120max	120max	120max	120max	120max	
	RIPPLE NOISE[mVp-p]	*2 150max	150max	150max	150max	150max	150max	150max	150max	
	TEMPERATURE REGULATION[mV]	0 to +55°C	150max	180max	150max	180max	150max	180max	150max	
	DRIFT[mV]	*3 50max	60max	50max	60max	50max	60max	50max	60max	
	START-UP TIME[ms]	100max (Minimum input, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), ±5% adjustable by external VR								
PROTECTION CIRCUIT	OUTPUT VOLTAGE SETTING[V]	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically								
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (Total of +V and -V)								
ISOLATION	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V . . . output ON, 2.4V - 5.5V(or open) . . . output OFF, Compatible to TTL								
	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
ENVIRONMENT	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max								
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max								
	VIBRATION	10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis								
	IMPACT	490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis								
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.234 Complies with IEC60950-1								
OTHERS	CASE SIZE/WEIGHT	45 × 8.5 × 50mm (W × H × D) / 55g max								
	COOLING METHOD	Convection								

\*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.

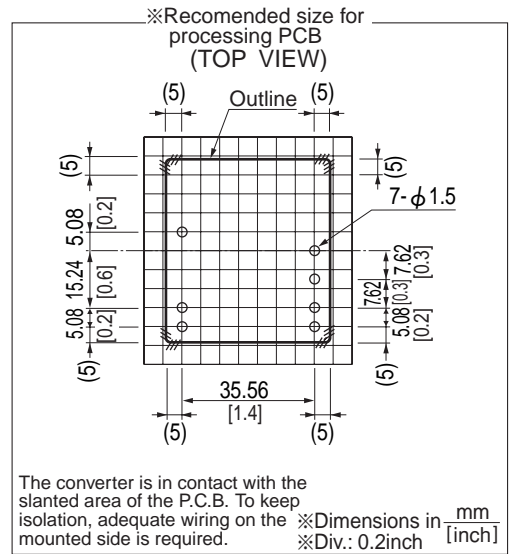
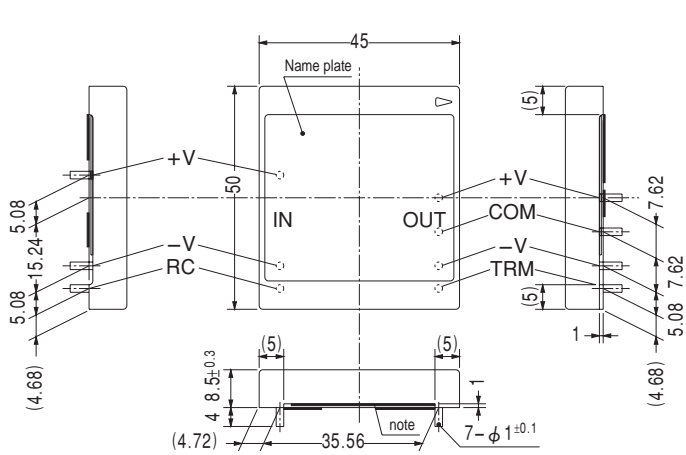
\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

\* The output specification is at ±12V and ±15V.

\* Series/Parallel operation with other model is not possible.

External view

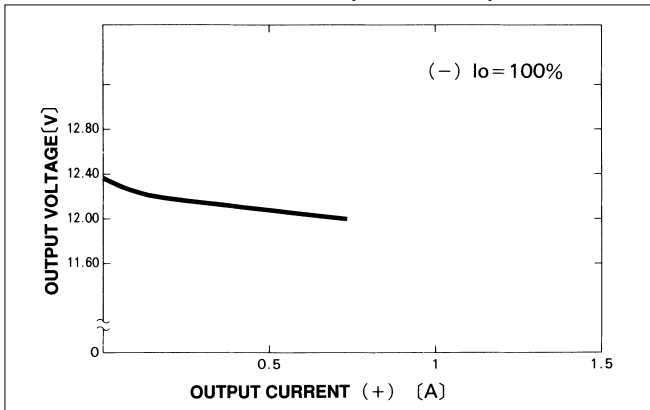


note) Internal parts  
 ※Weight: 55g or less.  
 ※Tolerance: ± 0.5  
 ※Case material: Aluminum

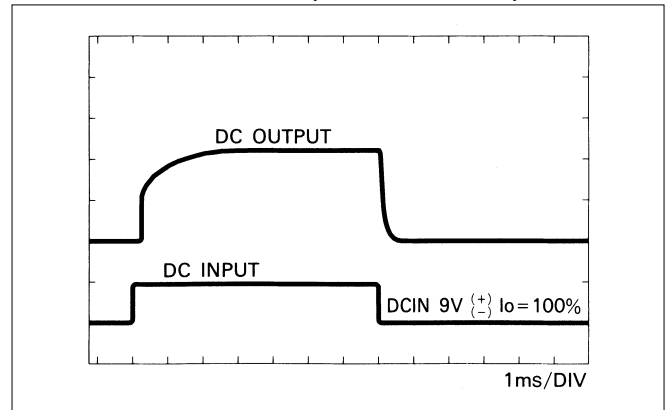
The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.  
 ※Dimensions in mm [inch]  
 ※Div.: 0.2inch

Performance data

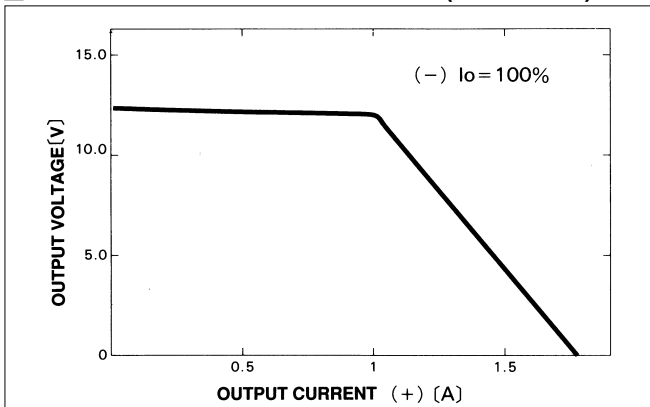
STATIC CHARACTERISTICS (ZUW151212)



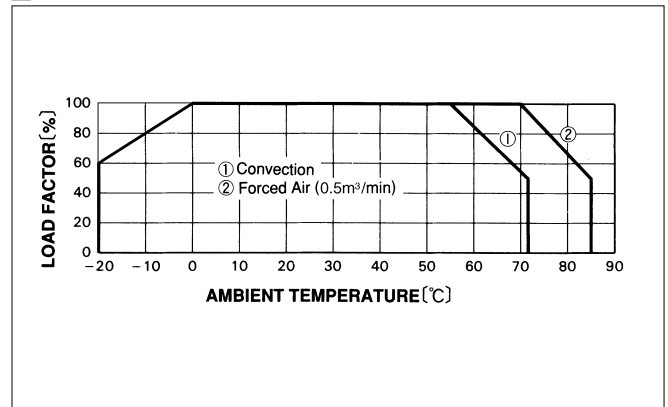
RISE TIME & FALL TIME (ZUW151212:+12V)



OVERCURRENT CHARACTERISTICS (ZUW151212)



DERATING CURVE



ZU/2T