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## ZUW25

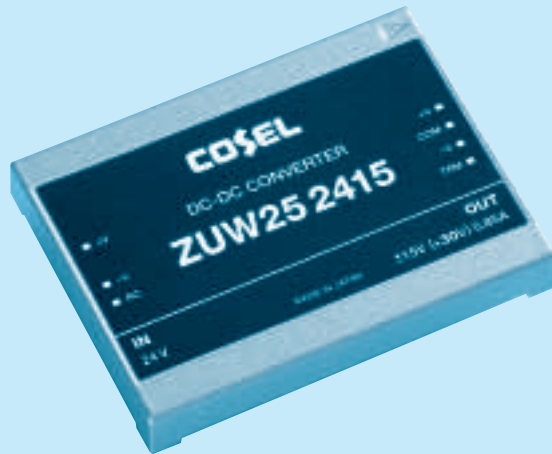


### Features

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

**5 year warranty(refer to Instruction Manual)**

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
ZUW250512	DC 4.5 - 9	20.2	-12 - 24V -0.84 - 0.84A
ZUW250515	DC 4.5 - 9	20.1	-15 - 30V -0.67 - 0.67A
ZUW251212	DC 9 - 18	25.2	-12 - 24V -0.84 - 1.05A
ZUW251215	DC 9 - 18	25.5	-15 - 30V -0.67 - 0.85A
ZUW252412	DC 18 - 36	25.2	-12 - 24V -0.84 - 1.05A
ZUW252415	DC 18 - 36	25.5	-15 - 30V -0.67 - 0.85A
ZUW254812	DC 36 - 72	25.2	-12 - 24V -0.84 - 1.05A
ZUW254815	DC 36 - 72	25.5	-15 - 30V -0.67 - 0.85A



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

MODEL	ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815	
<b>MAX OUTPUT WATTAGE[W]</b>	20.2	20.1	25.2	25.5	25.2	25.5	25.2	25.5	
<b>DC OUTPUT</b>	<b>VOLTAGE[V]</b>	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	<b>CURRENT[A]</b>	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85

## SPECIFICATIONS

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

	MODEL	ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815	
<b>INPUT</b>	<b>VOLTAGE[V]</b>	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 75		
	<b>CURRENT[A]</b> *1	4.92typ	4.90typ	2.47typ	2.50typ	1.23typ	1.25typ	0.62typ	0.63typ	
	<b>EFFICIENCY[%]</b> *1	82typ	82typ	85typ	85typ	85typ	85typ	85typ	85typ	
<b>OUTPUT</b>	<b>VOLTAGE[V]</b>	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	
	<b>CURRENT[A]</b>	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85	
	<b>LINE REGULATION[mV]</b>	60max	75max	60max	75max	60max	75max	60max	75max	
	<b>LOAD REGULATION[mV]</b>	600max	750max	600max	750max	600max	750max	600max	750max	
	<b>RIPPLE[mVp-p]</b> *2	120max	120max	120max	120max	120max	120max	120max	120max	
	<b>RIPPLE NOISE[mVp-p]</b> *2	150max	150max	150max	150max	150max	150max	150max	150max	
	<b>TEMPERATURE REGULATION[mV]</b> 0 to +55°C	150max	180max	150max	180max	150max	180max	150max	180max	
	<b>DRIFT[mV]</b> *3	50max	60max	50max	60max	50max	60max	50max	60max	
	<b>START-UP TIME[ms]</b>	100max (Minimum input, Io=100%)								
	<b>OUTPUT VOLTAGE ADJUSTMENT RANGE[V]</b>	Internally fixed (TRM pin open), ±5% adjustable by external VR								
<b>PROTECTION CIRCUIT</b>	<b>OVERCURRENT PROTECTION</b>	Works over 105% of rating and recovers automatically								
	<b>OVERVOLTAGE PROTECTION</b>	Works at 115 - 140% of rating (Total of +V and -V)								
	<b>REMOTE ON/OFF</b>	Between RC and -side of input:short - 1.2V . . . output ON, 2.4V - 5.5V(or open) . . . output OFF, Compatible to TTL								
<b>ISOLATION</b>	<b>INPUT-OUTPUT</b>	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
	<b>INPUT-CASE</b>	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
	<b>OUTPUT-CASE</b>	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
<b>ENVIRONMENT</b>	<b>OPERATING TEMP.,HUMID.AND ALTITUDE</b>	-20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max								
	<b>STORAGE TEMP.,HUMID.AND ALTITUDE</b>	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max								
	<b>VIBRATION</b>	10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis								
	<b>IMPACT</b>	490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis								
<b>SAFETY</b>	<b>AGENCY APPROVALS</b>	UL60950-1, EN60950-1, CSA C22.2 No.234 Complies with IEC60950-1								
<b>OTHERS</b>	<b>CASE SIZE/WEIGHT</b>	65 × 8.5 × 50mm (W × H × D) / 65g max								
	<b>COOLING METHOD</b>	Convection								

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

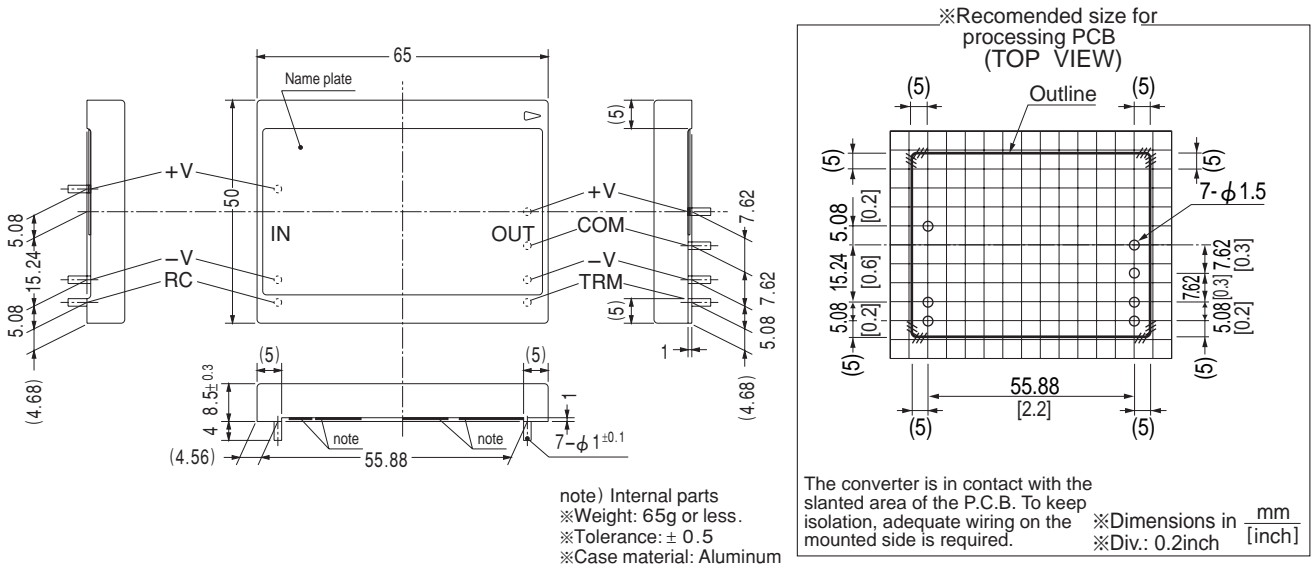
\*2 Measured by 20MHz oscilloscope.

\*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.

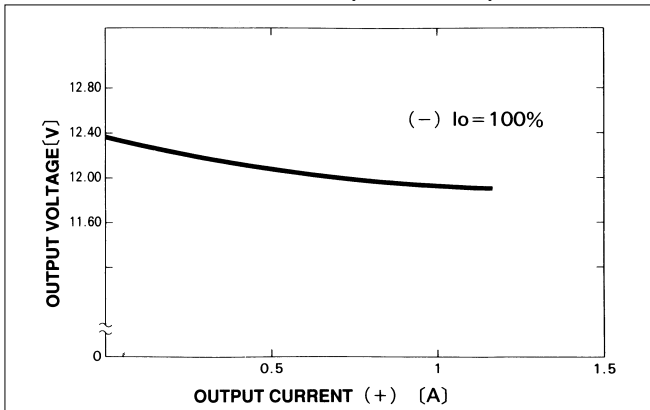
\* Series/Parallel operation with other model is not possible.

External view

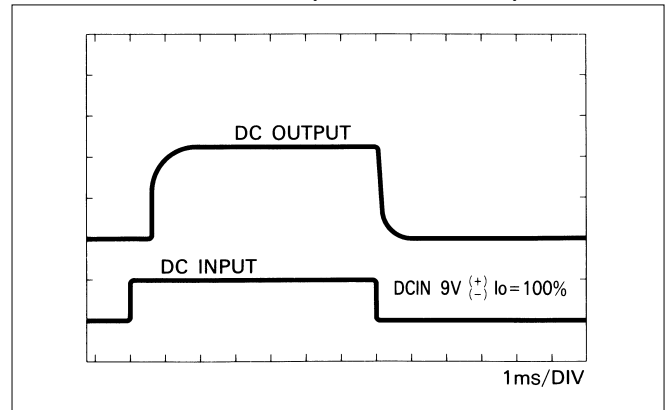


Performance data

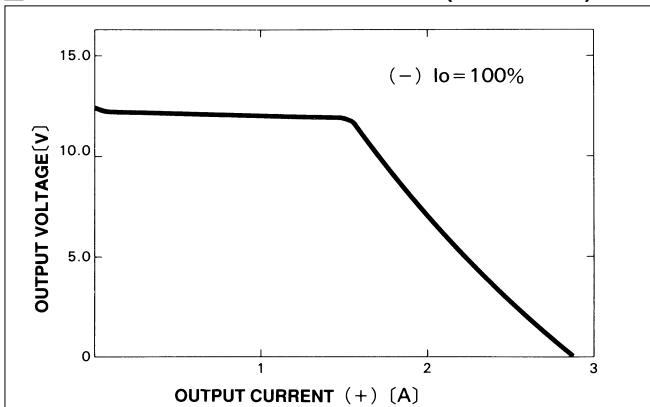
■ STATIC CHARACTERISTICS (ZUW251212)



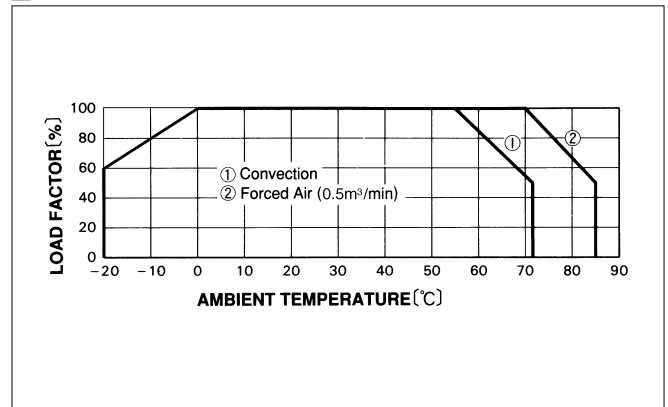
■ RISE TIME & FALL TIME (ZUW251212:+12V)



■ OVERCURRENT CHARACTERISTICS (ZUW251212)



■ DERATING CURVE



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