COSEL **On-board type**

ZUW25

Ordering information

ZU	W	25	12	12	
①	②	③	④	⑤	

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

MODEL		ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815
MAX OUTPUT WATTAGE[W]		20.2	20.1	25.2	25.5	25.2	25.5	25.2	25.5
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	±15 or +30
	CURRENT[A]	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85

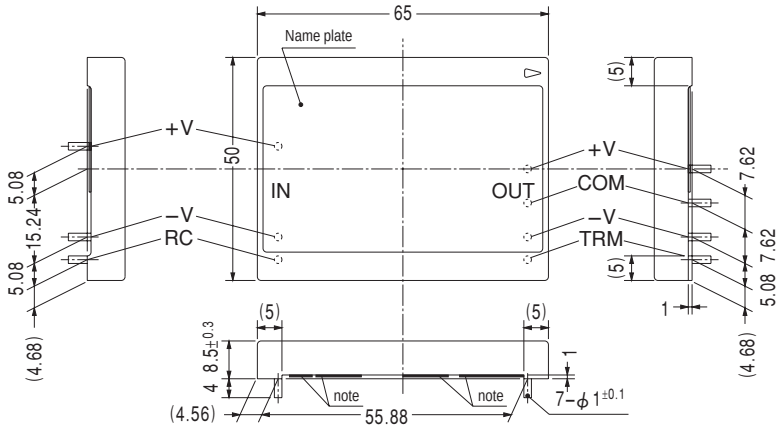
SPECIFICATIONS

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

	MODEL	ZUW250512	ZUW250515	ZUW251212	ZUW251215	ZUW252412	ZUW252415	ZUW254812	ZUW254815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 75	
	CURRENT[A] *1	4.92typ	4.90typ	2.47typ	2.50typ	1.23typ	1.25typ	0.62typ	0.63typ
	EFFICIENCY[%] *1	82typ	82typ	85typ	85typ	85typ	85typ	85typ	85typ
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)	±12 (+24)	±15 (+30)
	CURRENT[A]	0.84	0.67	1.05	0.85	1.05	0.85	1.05	0.85
	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℃	150max	180max	150max	180max	150max	180max	150max	180max
	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							
	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
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (Total of +V and -V)							
	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							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION	10 - 55Hz, 98.0m/s^2 (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT	490.3m/s^2 (50G), 11ms, once each X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL1950, EN60950, CSA C22.2 No.234 Complies with IEC60950							
OTHERS	CASE SIZE/WEIGHT	65×8.5×50mm (W×H×D) / 65g max							
	COOLING METHOD	Convection							

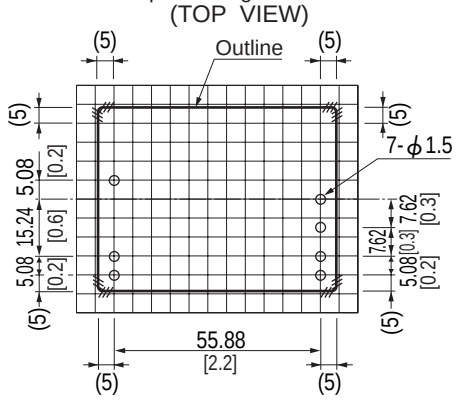
*1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.
*2 Measured by 20MHz oscilloscope.
*3 The drift is a change at 25℃ of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.
* The output specification is at ±12V and ±15V.
* Series/Parallel operation with other model is not possible.

External view



note) Internal parts
※Weight: 65g or less.
※Tolerance: ± 0.5
※Case material: Aluminum

※Recomended size for processing PCB (TOP VIEW)

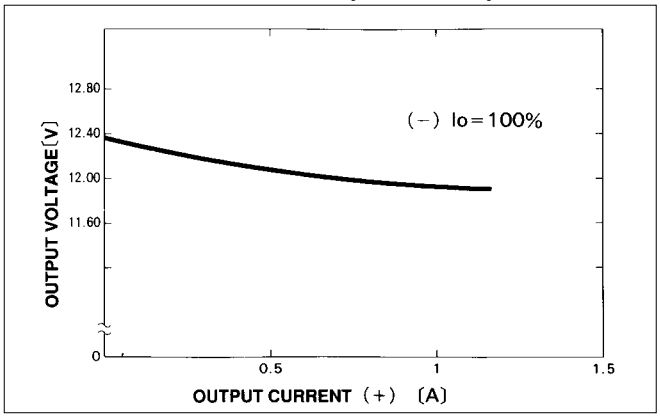


The converter is in contact with the slanted area of the P.C.B. To keep isolation, adequate wiring on the mounted side is required.

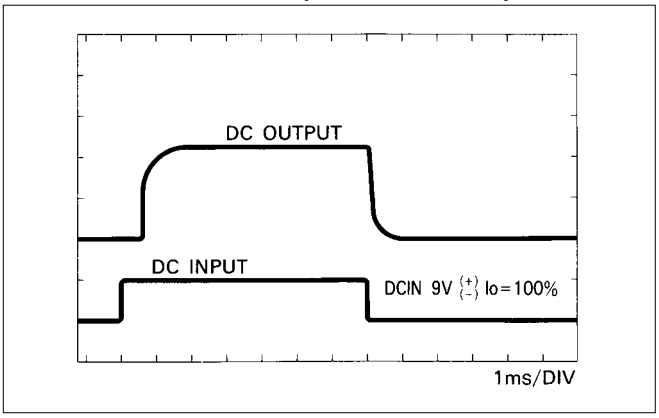
※Dimensions in mm [inch]
※Div.: 0.2inch

Performance data

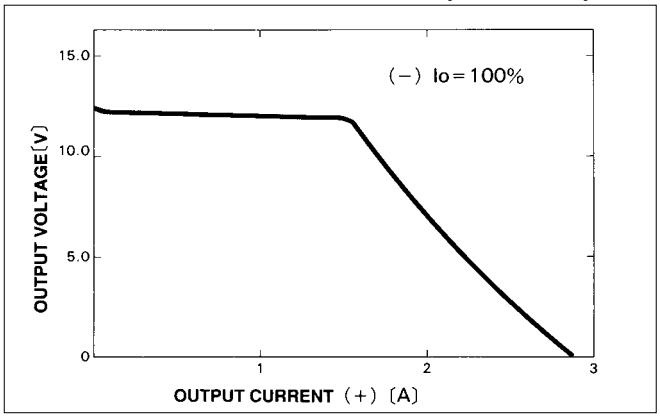
■STATIC CHARACTERISTICS (ZUW251212)



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



■OVERCURRENT CHARACTERISTICS (ZUW251212)



■DERATING CURVE