



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

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MODEL	ZTW1R50512	ZTW1R50515	ZTW1R51212	ZTW1R51215	ZTW1R52412	ZTW1R52415	ZTW1R54812	ZTW1R54815
MAX OUTPUT WATTAGE[W]	1.56	1.50	1.56	1.50	1.56	1.50	1.56	1.50
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]	0.065	0.050	0.065	0.050	0.065	0.050	0.065

SPECIFICATIONS

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

	MODEL	ZTW1R50512	ZTW1R50515	ZTW1R51212	ZTW1R51215	ZTW1R52412	ZTW1R52415	ZTW1R54812	ZTW1R54815
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 72	
	CURRENT[A]	*1 0.466typ	0.448typ	0.183typ	0.176typ	0.092typ	0.088typ	0.046typ	0.044typ
	EFFICIENCY[%]	*1 67typ	67typ	71typ	71typ	71typ	71typ	71typ	71typ
OUTPUT	VOLTAGE[V]	† 12 (+24)	† 15 (+30)	† 12 (+24)	† 15 (+30)	† 12 (+24)	† 15 (+30)	† 12 (+24)	† 15 (+30)
	CURRENT[A]	0.065	0.050	0.065	0.050	0.065	0.050	0.065	0.050
	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]	-20 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]	20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed							
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20 † 15°C)							
	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20 † 15°C)							
ISOLATION	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50MW 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							
ENVIRONMENT	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, C-UL, EN60950 Complies with IEC60950							
OTHERS	CASE SIZE/WEIGHT	28 × 21 × 10mm (W × H × D) / 15g max							
	COOLING METHOD	Convection							

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

*2 Measured by 20MHz oscilloscope.

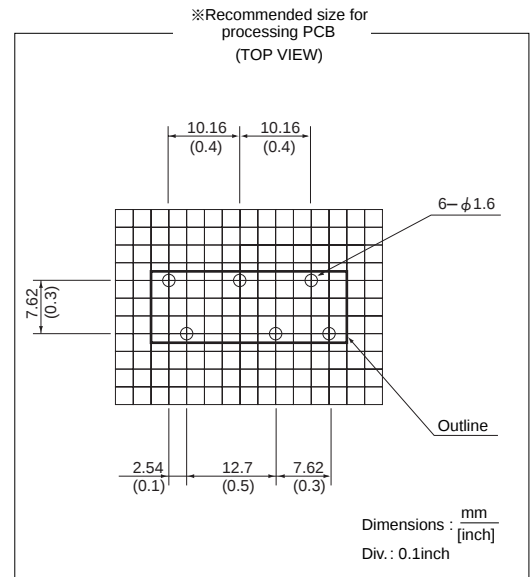
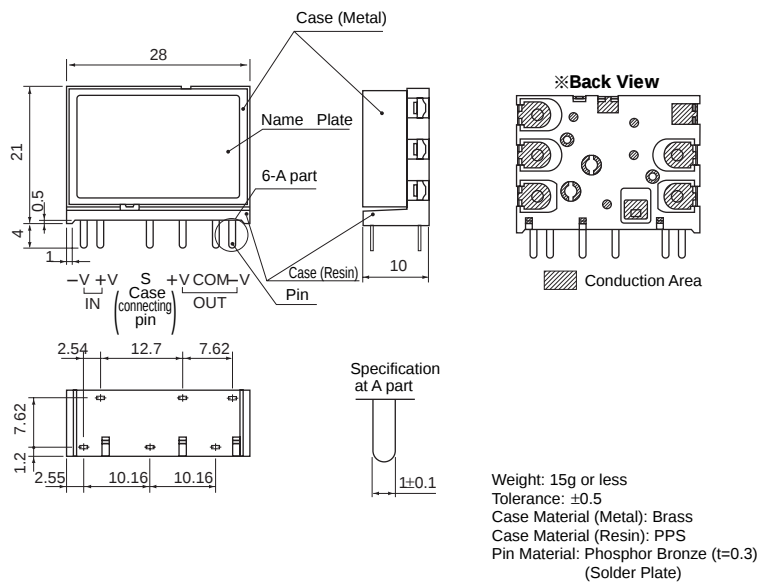
*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the in

* The output specification is at † 12V and † 15V.

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

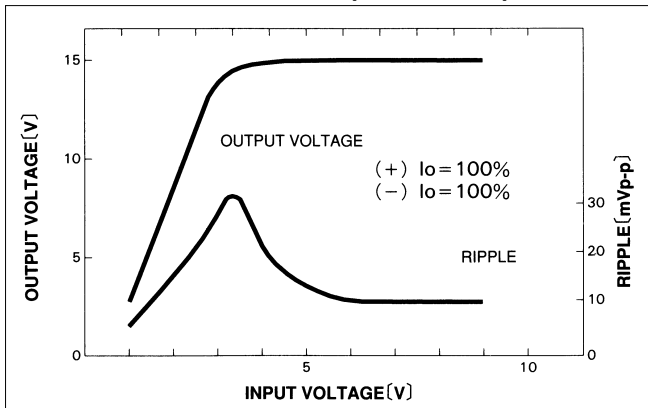
put voltage applied at rated input/output.

External view

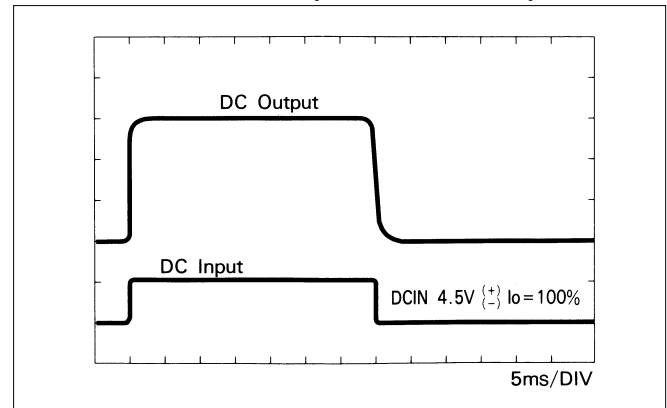


Performance data

■ STATIC CHARACTERISTICS (ZTW1R50515)



■ RISE TIME & FALL TIME (ZTW1R50515: +15V)



ZU/ZT

■ OVERCURRENT CHARACTERISTICS (ZTW1R50515)

