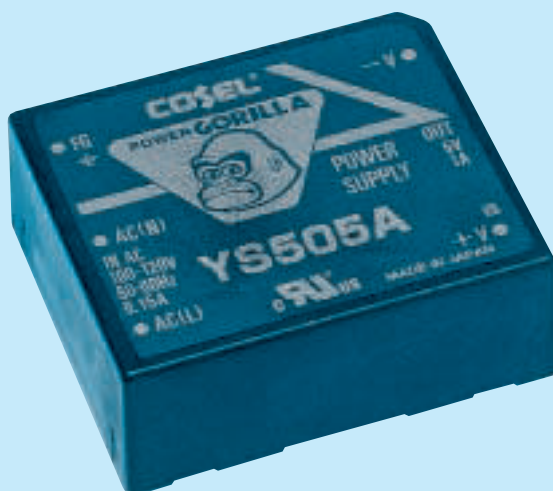




- 1 Series name
- 2 Single output
- 3 Output wattage
- 4 Output voltage

TRC Electronics, Inc.

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MODEL	YS505A	YS512A
MAX OUTPUT WATTAGE[W]	5.0	5.4
DC OUTPUT	5V 1.0A	12V 0.45A

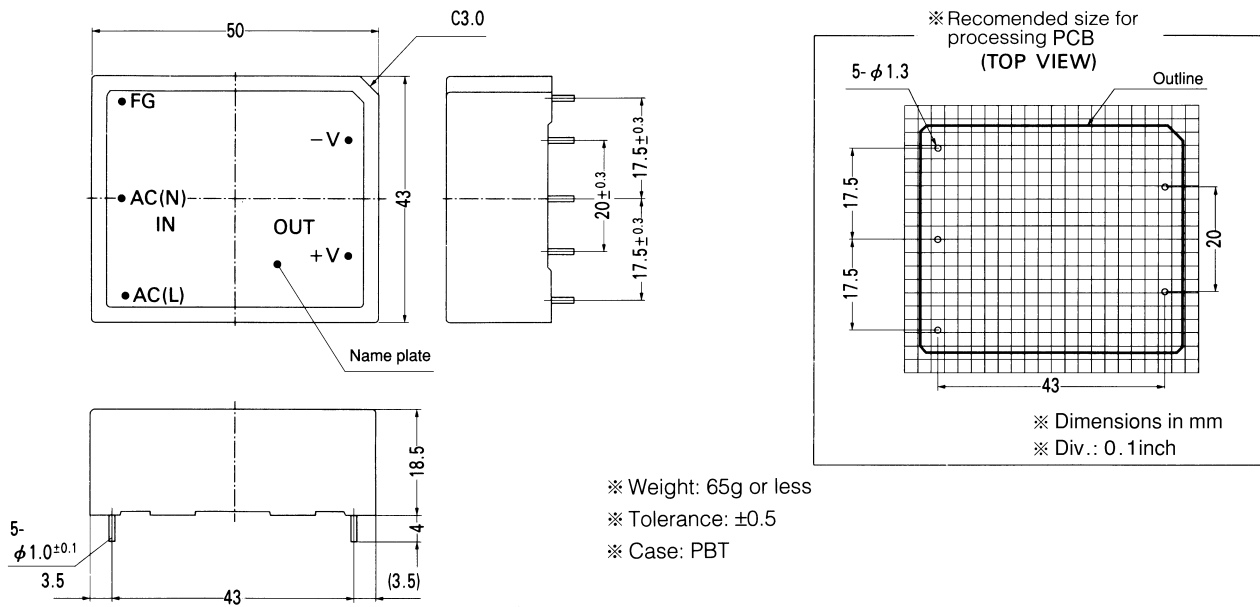
SPECIFICATIONS

	MODEL	YS505A	YS512A
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170	
	CURRENT[A]	ACIN 100V 0.15typ (Io=100%)	
	FREQUENCY[Hz]	47 - 440 or DC	
	EFFICIENCY[%]	ACIN 100V 68typ (Io=100%)	70typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V 15typ (Io=100%)	
OUTPUT	VOLTAGE[V]	5	12
	CURRENT[A]	1	0.45
	LINE REGULATION[mV]	20max	48max
	LOAD REGULATION[mV]	40max	100max
	RIPPLE[mVp-p]	*1 80max	120max
	RIPPLE NOISE[mVp-p]	*1 120max	150max
	TEMPERATURE REGULATION[mV] 0 to +55°C	50max	150max
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed	
	OUTPUT VOLTAGE SETTING[%]	± 5max (Rated input/output, Ta=25°C)	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically	
	INPUT-FG, OUTPUT	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50Mwmin (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50Mwmin (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 30minutes each along X, Y and Z axis	
	IMPACT	490.3m/s ² (50G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL1950, C-UL	
	CONDUCTED NOISE	Complies with FCC-B	

*1 Measured by 20MHz oscilloscope.

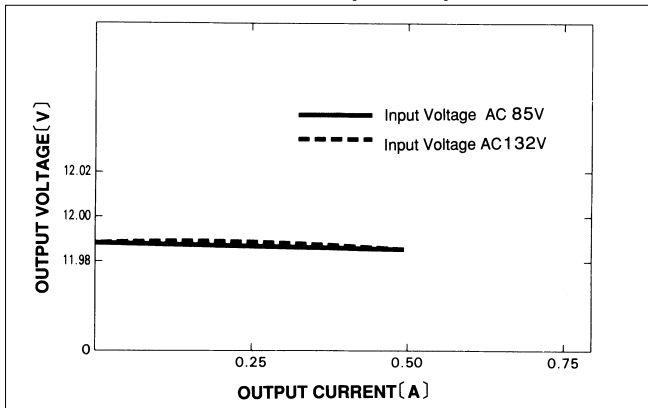
* Parallel operation with other model is not possible.

External view

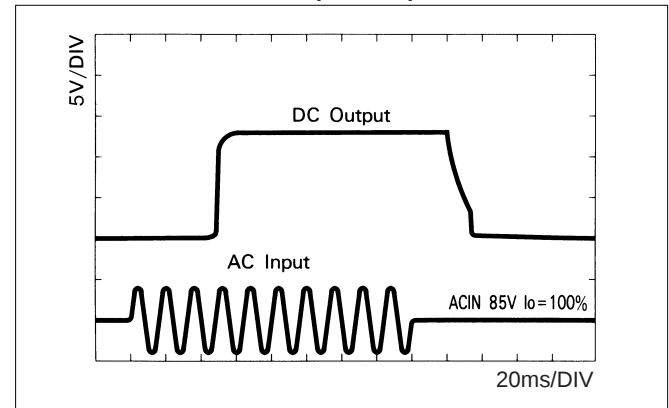


Performance data

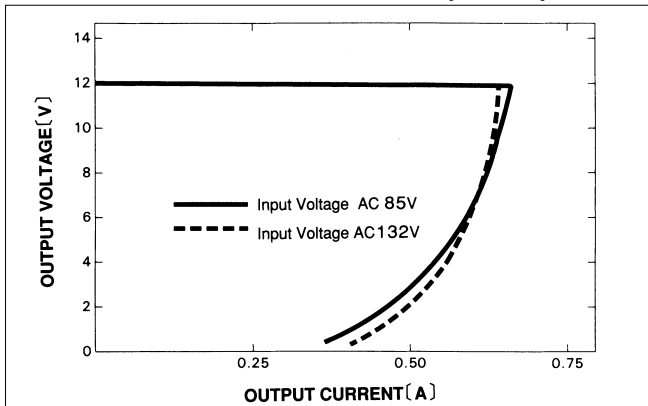
STATIC CHARACTERISTICS (YS512A)



RISE TIME & FALL TIME (YS512A)



OVERCURRENT CHARACTERISTICS (YS512A)



DERATING CURVE

