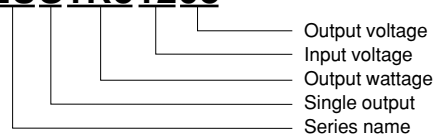




- Thin profile
- Isolated between input-output
- Built-in overcurrent protection circuit
- UL recognized, TÜV approved, CSA certified
- Five-year warranty

### ORDERING INFORMATION

#### ZUS1R51205



## SPECIFICATIONS

	MODEL	ZUS1R50505	ZUS1R50512	ZUS1R50515	ZUS1R51205	ZUS1R51212	ZUS1R51215	ZUS1R52405	ZUS1R52412	ZUS1R52415	ZUS1R54805	ZUS1R54812	ZUS1R54815	
INPUT	VOLTAGE [V]	DC4.5~9			DC9~18			DC18~36			DC 36~72			
	CURRENT [A]※1	0.441 typ	0.459 typ	0.441 typ	0.176 typ	0.183 typ	0.176 typ	0.088 typ	0.092 typ	0.088 typ	0.043 typ	0.045 typ	0.043 typ	
	EFFICIENCY [%]※1	68 typ	68 typ	68 typ	71 typ	71 typ	71 typ	71 typ	71 typ	71 typ	73 typ	73 typ	73 typ	
OUTPUT	VOLTAGE [V]	5	12	15	5	12	15	5	12	15	5	12	15	
	CURRENT [A]	0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10	
	LINE REGULATION [mV]	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max	
	LOAD REGULATION [mV]	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	100max	120max	
	RIPPLE ※3 [mVp-p]	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	120max	120max	
	RIPPLE NOISE ※3 [mVp-p]	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max	
	TEMPERATURE REGULATION -20°C~+55°C [mV]	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	150max	180max	
	DRIFT [mV]※2	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max	
	START-UP TIME [ms]	20max (Minimum input, Io=100%)												
	OUTPUT VOLTAGE ADJUSTMENT RANGE [V]	FIXED												
OUTPUT VOLTAGE SETTING [V]	4.85-5.25	11.40-12.60	14.25-15.75	4.85-5.25	11.40-12.60	14.25-15.75	4.85-5.25	11.40-12.60	14.25-15.75	4.85-5.25	11.40-12.60	14.25-15.75		
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically												
ISOLATION	INPUT-OUTPUT	AC500V, 1 minute. Cutoff current=10mA, DC500V, 50MΩ min (At Room Temperature)												
	INPUT-CASE	AC500V, 1 minute. Cutoff current=10mA, DC500V, 50MΩ min (At Room Temperature)												
	OUTPUT-CASE	AC500V, 1 minute. Cutoff current=10mA, DC500V, 50MΩ min (At Room Temperature)												
ENVIRONMENT	OPERATING TEMP, HUMID. AND ALTITUDE	-20~+71°C, 20~95%RH (Non condensing) (Refer to DERATING CURVE) , 3,000m (10,000feet) max												
	STORAGE TEMP, HUMID. AND ALTITUDE	-40~+85°C, 20~95%RH (Non condensing) , 9,000m (30,000feet) max												
	VIBRATION	10~55Hz, 98.0m/s <sup>2</sup> (10G) , 3 minutes period, 60 minutes 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	UL 1950, EN60950, CSA C22.2 No.950 Complies with IEC60950												

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

※2 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.

※3 Measured by 20MHz oscilloscope.

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