ZUS10

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]
ZUS10053R3	DC 4.5 - 9 AC 99999 - - 99999	5.28	3.3V 1.6A
ZUS100505	DC 4.5 - 9	8	5V 1.6A
ZUS100512	DC 4.5 - 9	8.4	12V 0.7A
ZUS100515	DC 4.5 - 9	9	15V 0.6A
ZUS1001205	DC 9 - 18	10	5V 2A
ZUS1001212	DC 9 - 18	10.8	12V 0.9A
ZUS1001215	DC 9 - 18	10.5	15V 0.7A
ZUS1002405	DC 18 - 36	10	5V 2A
ZUS1002412	DC 18 - 36	10.8	12V 0.9A
ZUS1002415	DC 18 - 36	10.5	15V 0.7A
ZUS1004805	DC 36 - 72	10	5V 2A
ZUS1004812	DC 36 - 72	10.8	12V 0.9A
ZUS1004815	DC 36 - 72	10.5	15V 0.7A
ZUS100483R3	DC 36 - 72	6.6	3.3V 2A

COSEL **On-board type**

ZUS10

Ordering information

ZU	S	10	12	05	
①	②	③	④	⑤	

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

RoHS

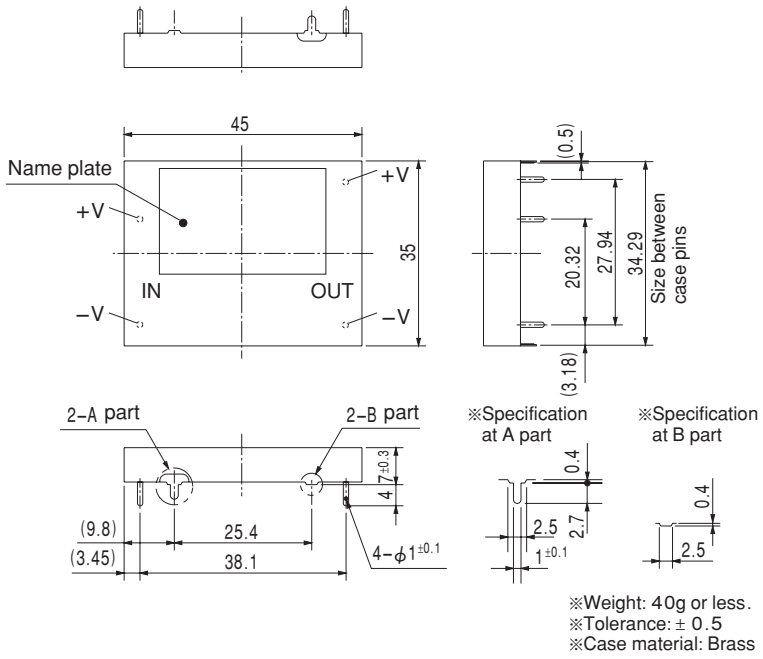
MODEL		ZUS10053R3	ZUS100505	ZUS100512	ZUS100515	ZUS101205	ZUS101212	ZUS101215	ZUS102405	ZUS102412	ZUS102415	ZUS10483R3	ZUS104805	ZUS104812	ZUS104815
MAX OUTPUT WATTAGE[W]		5.28	8.0	8.4	9.0	10.0	10.8	10.5	10.0	10.8	10.5	6.6	10.0	10.8	10.5
DC OUTPUT	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
	CURRENT[A]	1.6	1.6	0.7	0.6	2.0	0.9	0.7	2.0	0.9	0.7	2	2.0	0.9	0.7

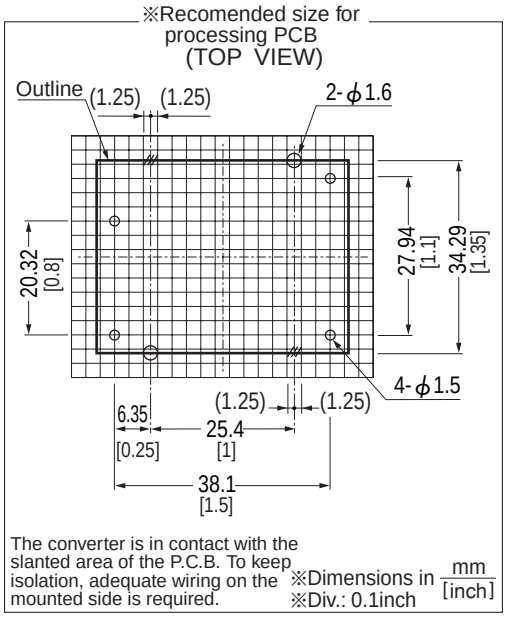
SPECIFICATIONS

	MODEL	ZUS10053R3	ZUS100505	ZUS100512	ZUS100515	ZUS101205	ZUS101212	ZUS101215	ZUS102405	ZUS102412	ZUS102415	ZUS10483R3	ZUS104805	ZUS104812	ZUS104815
INPUT	VOLTAGE[V]	DC4.5 - 9				DC9 - 18			DC18 - 36			DC36 - 72			
	CURRENT[A] *1	1.48typ	2.14typ	2.24typ	2.40typ	1.05typ	1.10typ	1.07typ	0.53typ	0.55typ	0.54typ	0.18typ	0.27typ	0.28typ	0.27typ
	EFFICIENCY[%] *1	72typ	75typ	75typ	75typ	80typ	82typ	82typ	80typ	82typ	82typ	75typ	80typ	82typ	82typ
OUTPUT	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
	CURRENT[A]	1.6	1.6	0.7	0.6	2.0	0.9	0.7	2.0	0.9	0.7	2.0	2.0	0.9	0.7
	LINE REGULATION[mV]	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	LOAD REGULATION[mV]	40max	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	40max	100max	120max
	RIPPLE[mVp-p] *2	80max	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	80max	120max	120max
	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	120max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	50max	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	50max	150max	180max
	DRIFT[mV] *3	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]	20max (Minimum input, Io=100%)													
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed													
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	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	3.20 - 3.47	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 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/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis													
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis													
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.950 Complies with IEC60950-1													
OTHERS	CASE SIZE/WEIGHT	45×7×35mm (W×H×D) / 40g 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.
* Series/Parallel operation with other model is not possible.

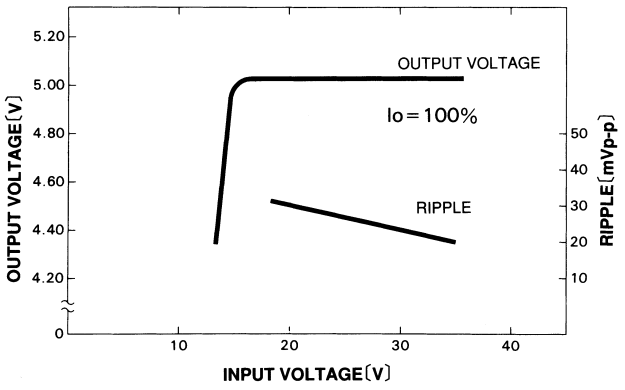
External view



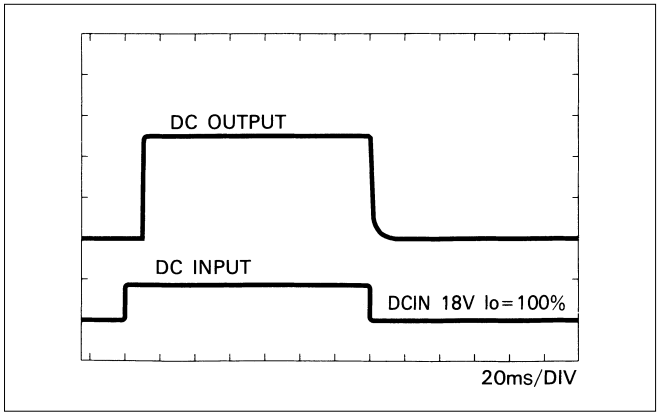


Performance data

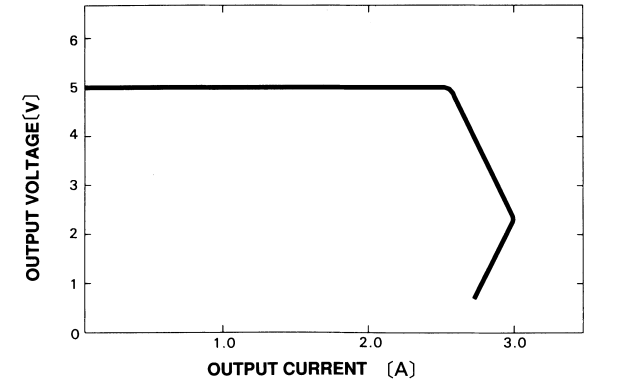
■STATIC CHARACTERISTICS (ZUS102405)



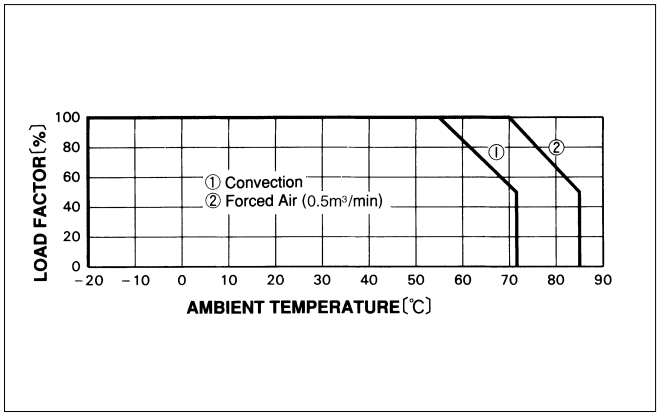
■RISE TIME & FALL TIME (ZUS102405)



■OVERCURRENT CHARACTERISTICS (ZUS102405)



■DERATING CURVE



ZU/ZT