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S

ZUS25053R3 | ZUS250505 | ZUS250512 | ZUS251205 | ZUS251212 | ZUS252405 | ZUS252412 | ZUS25483R3 | ZUS254805 | ZUS254812

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12

05

1)Series name

②Single output ③Output wattage ④Input voltage

⑤Output voltage





MODEL		ZUS25053R3	ZUS250505	ZUS250512	ZUS251205	ZUS251212	ZUS252405	ZUS252412	ZUS25483R3	ZUS254805	ZUS254812
MAX OUTPUT WATTAGE[W]		13.2	16.0	20.4	20.0	25.2	20.0	25.2	13.2	20.0	25.2
DC OUTDUT	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12
DC OUTPUT	CURRENT[A]	4.0	3.2	1.7	4.0	2.1	4.0	2.1	4.0	4.0	2.1

SPECIFICATIONS

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MODEL

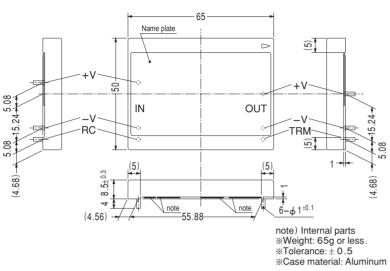
	VOLTAGE[V]	DC4.5 - 9				DC9 - 18		DC18 - 36		DC36 - 75		
INPUT	CURRENT[A] *1	3.66typ	4.00typ	4.98typ	2.03typ	2.47typ	1.02typ	1.23typ	0.35typ	0.51typ	0.62typ	
	EFFICIENCY[%] *1	72typ	80typ	82typ	82typ	85typ	82typ	85typ	78typ	82typ	85typ	
	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12	
	CURRENT[A]	4.0	3.2	1.7	4.0	2.1	4.0	2.1	4.0	4.0	2.1	
	LINE REGULATION[mV]	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	LOAD REGULATION[mV]	40max	40max	100max	40max	100max	40max	100max	40max	40max	100max	
•	RIPPLE[mVp-p] *2	80max	80max	120max	80max	120max	80max	120max	80max	80max	120max	
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	120max	150max	120max	150max	120max	120max	150max	
OUIPUI	TEMPERATURE REGULATION[mV] 0 to +55℃	50max	50max	150max	50max	150max	50max	150max	50max	50max	150max	
	DRIFT[mV] *3	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	START-UP TIME[ms]	100max (Minimum input, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), adjustable by external VR										
	OUTFUT VOLIAGE ADJUSTMENT KANGE[V]	3.20 - 3.47	±5%						3.20 - 3.47	±5%		
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	
PROTECTION	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically										
PROTECTION CIRCUIT	OVERVOLTAGE PROTECTION	4.0 - 5.25V Works at 115 - 140% of rating 4.0 - 5.25V Works at 115 - 140% of rating										
	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										
	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 C)										
ISOLATION	INPUT-CASE	AC500V 1	minute, Cu	utoff curren	nt = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
	OUTPUT-CASE	AC500V 1	minute, Cu	utoff curren	nt = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71 $^\circ\!\! C$, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max								et) max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85	5℃, 20 - 95	5%RH (Noi	on condensing), 9,000m (30,000feet) max							
ENVIRONMENT	VIBRATION	10 - 55Hz	, 98.0m/s ²	(10G), 3m	ninutes 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.234 Complies with IEC60950-1										
OTHERS	CASE SIZE/WEIGHT	65 x 8.5 x 50mm (W x H x D) / 65g max										
UTHERS	COOLING METHOD	Convection										
*4 Dated inn	ut 5\/ 12\/ 24\/ or 49\/ DC Io=100%											

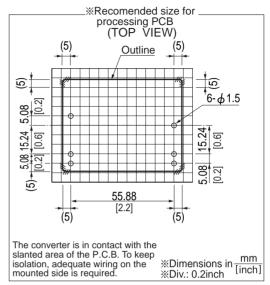
^{*1} Rated input. 5V, 12V, 24V or 48V DC, lo=100%

^{*2} Measured by 20MHz oscilloscope.

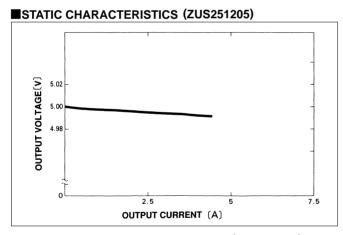
^{*3} The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

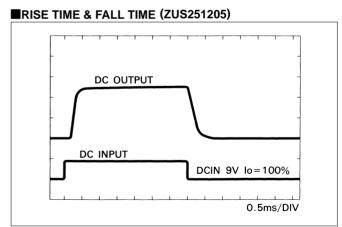
Series/Parallel operation with other model is not possible.

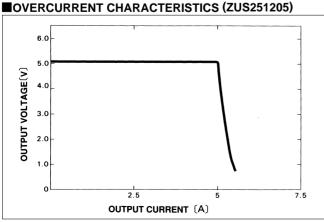


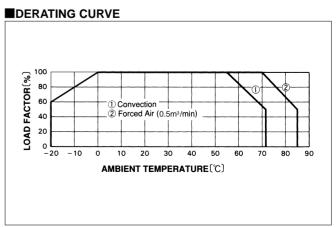


Performance data









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Basic Characteristics Data

Basic Characteristics Data

	0: " 11 1	Switching	Input	Rated	Inrush	PCB/Pattern			Series/Parallel operation availability	
Model Circuit method		frequency current [kHz] [A]		input fuse	current protection	Material	Single sided	Double sided	Series operation	Parallel operation
ZUS1R5	Flyback converter	310 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUS3	Flyback converter	200 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUS6	Flyback converter	150 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUS10	Flyback converter	130 - 200	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZUS15	Single ended forward converter	330 - 400	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZUS25	Single ended forward converter	330 - 400	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZTS1R5	Flyback converter	310 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZTS3	Flyback converter	200 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUW1R5	Flyback converter	310 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	*2	* 2
ZUW3	Flyback converter	200 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUW6	Flyback converter	150 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZUW10	Flyback converter	130 - 200	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZUW15	Single ended forward converter	330 - 400	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZUW25	Single ended forward converter	330 - 400	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	Yes	* 2
ZTW1R5	Flyback converter	310 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2
ZTW3	Flyback converter	200 - 1600	* 1	Refer to table No.1	-	glass fabric base,epoxy resin		Yes	* 2	* 2

^{*1} Refer to Specification.

Table1. Rated input fuse

Output Power	Input Voltage									
Output Fower	5V	12V	24V	48V						
1.5W	72V 1.2A	72V 0.8A	72V 0.8A	72V 1.2A						
3W	72V 2.0A	72V 1.2A	72V 1.2A	72V 1.2A						
6W	72V 4.0A	72V 2.0A	72V 2.0A	72V 1.2A						
10W	125V 6.3A	125V 3.5A	125V 2.0A	125V 1.0A						
15W	15W 125V 8.0A		72V 4.0A	72V 4.0A						
25W 125V 10.0A		125V 6.3A	125V 3.15A	125V 2.0A						

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^{*2} Refer to Instruction Manual.