

Zup Series Specifications

MODEL		ZUP6-33	ZUP6-66	ZUP6-132	ZUP10-20	ZUP10-40	ZUP10-80	ZUP20-10	ZUP20-20	ZUP20-40	ZUP36-6	ZUP36-12	ZUP36-24	ZUP60-3.5	ZUP60-7	ZUP60-14	REV.	
OUTPUT VOLTAGE (*1)	V	0-6			0-10			0-20			0-36			0-60				
OUTPUT CURRENT (*2)	A	0-33	0-66	0-132	0-20	0-40	0-80	0-10	0-20	0-40	0-6	0-12	0-24	0-3.5	0-7	0-14		
RATED OUTPUT POWER	W	198	396	792	200	400	800	200	400	800	216	432	864	210	420	840		
CONSTANT VOLTAGE	LOAD REGULATION	0.005%+2mV From No load to Full load, constant input voltage.																
	LINE REGULATION	0.005%+1mV From 85-132VAC or 170-265VAC, constant load.																
	RMS RIPPLE (5Hz-1MHz Bandwidth)	mV	5	5	8	5	5	8	5	5	5	5	5	5	5	5	5	A
	RIPPLE (pk to pk) (20MHz Bandwidth)	mV	50	50	100	50	50	90	50	50	80	50	70	50	50	60		A
	RECOVERY TIME (*4)	mS	1			0.5			0.2			0.2			0.2			
	TEMPERATURE COEFFICIENT	-	30ppm/°C from rated voltage following 30-minute warm-up.															
	TEMPERATURE DRIFT	-	0.01%+2mV Change in output over 8-hour interval under constant line, load and ambient temp. following 30-minute warm-up.															
	UP PROGRAMMING RESPONSE TIME (*12)	mS	50	50	60	50	50	60	50	50	60	50	50	60	50	50	60	A
DOWN PROGRAMMING RESPONSE TIME	FULL LOAD	mS	50	50	50	50	50	50	50	50	50	50	50	50	50	70	B	
	NO LOAD	mS	250			350			400			500			750			
CONSTANT CURRENT	LOAD REGULATION (*9)	-	0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	0.01%+5mA	0.07%+10mA	A
	LINE REGULATION (*10)	-	0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	0.01%+2mA	0.01%+5mA	A
	RMS RIPPLE (5Hz-1MHz Bandwidth)	mA	50	100	200	25	50	100	15	30	60	7.5	15	30	5	10	20	
	TEMPERATURE COEFFICIENT	-	100ppm/°C from rated current following 30-minute warm-up.															
TEMPERATURE DRIFT (*11)	-	0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	0.02%+5mA	0.05%+10mA	A	
PROGRAMMING (*3)	VOLTAGE	RESOLUTION	Better than 0.028% of rated output voltage															
		ACCURACY	0.02%+5mV			0.02%+8mV			0.02%+12mV			0.02%+20mV			0.02%+35mV			
	CURRENT	RESOLUTION	Better than 0.03% of rated output current															
		ACCURACY	0.4%+40mA															
OVERVOLTAGE PROTECTION (*5)	V	0-7.5			0-13			0-24			0-40			0-66				
HOLD-UP TIME	-	20mS At 100V/200VAC, rated output voltage and output current.																
DISPLAY	VOLTAGE	3 digits (6v; 20v; 36v; 60v); 3.5 digits (10v) accuracy: 0.2% +/- 2 digits																
	CURRENT	3.5 digits (132A); All others 3 digits, accuracy: 0.5% +/- 3 digits																
	STATUS	CV/CC, Alarm, Fold, Local/Remote, On/Off.																
OUTPUT PROTECTIONS	-	Over Voltage, Over Temperature, Foldback																
INPUT	INPUT VOLTAGE (*8)	85-265Vac Continuous, 47-63Hz																
	INPUT CURRENT (*6)	A	3.0/1.5	5.6/2.7	11.2/5.4	2.9/1.4	5.6/2.7	11.2/5.4	2.9/1.4	5.6/2.7	11.2/5.4	2.9/1.4	5.6/2.7	11.2/5.4	2.9/1.4	5.6/2.7	11.2/5.4	
	INPUT CURRENT HARMONICS	-	Complies with EN61000-3-2, Class A															
	POWER FACTOR (TYP)	-	0.99 at 100/200Vac, 100% load															
	EFFICIENCY (*6)	%	69/72	74/77	74/77	73/77	79/82	77/81	74/78	79/83	79/82	76/80	80/84	80/84	75/79	80/84	80/84	A
INRUSH CURRENT (100/200V)	A	15/30 (*7)	15	30	15/30 (*7)	15	30	15/30 (*7)	15	30	15/30 (*7)	15	30	15/30 (*7)	15	30		
ENVIRONMENT	OPERATING TEMPERATURE	0 to 50°C; 100% Load																
	OPERATING HUMIDITY	30-90% RH (No dewdrop)																
	STORAGE TEMPERATURE	-20 to 70°C																
	STORAGE HUMIDITY	10 - 95% RH (No dewdrop)																
MECHANICAL	VIBRATION	10-55Hz, Amplitude (sweep 1 min) 2G, X, Y, Z, When mounted with mounting screws																
	SHOCK	Less than 20G																
	WEIGHT	Kg	2.9	3.2	5.8	2.9	3.2	5.8	2.9	3.2	5.8	2.9	3.2	5.8	2.9	3.2	5.8	
	SIZE (WxHxD)	mm	200W and 400W units: 70 x 124 x 350. 800W units: 140 x 124 x 350 (Refer to outline drawing)															
EXTERNAL CONTROL FUNCTIONS	OUTPUT ON/OFF	By TTL Signal or Dry Contact (Refer to instruction manual).																
	OUTPUT GOOD	Open collector (Refer to instruction manual).																
	OUTPUT VOLTAGE PROGRAMMING	By Voltage (0-4V) or by Resistance (0-4K) (Refer to instruction manual).																
	OUTPUT CURRENT PROGRAMMING	By Voltage (0-4V) or by Resistance (0-4K) (Refer to instruction manual).																
	REMOTE SENSING	Possible. Maximum 0.5V drop on each load wire.																
	COMMUNICATION INTERFACE	RS232 and RS485 Built-in, IEEE488 Optional																
APPROVALS	SAFETY STANDARDS	UL3111-1, EN61010-1																
	EMC STANDARDS	EN61326-1, IEC 61326-1, FCC part 15 (class A)																
CONDUCTED EMI	EN55022-B, FCC-B, VCCI-2																	
RADIATED EMI	EN55022-A, FCC-A, VCCI-1																	
SERIES OPERATION	Up to 2 units (Refer to instruction manual).																	
PARALLEL OPERATION	Master - Slave method; up to 5 units (Refer to instruction manual).																	
COOLING	Forced air by blower fan (Blower fan is mounted within unit)																	
WITHSTAND VOLTAGE	Input - Chassis...2.0kVAC 1min. Input - Output...3.0kVac 1 min Output - Chassis...500VAC 1 min.																	
ISOLATION RESISTANCE	More than 100MΩ at 25°C and 70% R.H.																	

NOTES:

- *1. Minimum voltage is guaranteed to maximum 0.2% of the rated output voltage.
- *2. Minimum current is guaranteed to maximum 0.4% of the rated output current.
- *3. Given for control of the output via the serial communication or via front panel controls.
- *4. Time for recovery to within ±50mV against current change of 50% to 100%.
- *5. Inverter shut down method, manual reset (OVP will shut down output)
- *6. At 100V/200V and Maximum Output Power.
- *7. At cold start Ta=25°C.
- *8. For cases where conformance to various safety specs. (UL, IEC, etc.) are required, to be described as 100-240VAC (50/60Hz) on name plate.
- *9. From no load to full load , constant input voltage.

- *10. From 85~132Vac or 170~265Vac constant load.
- *11. Change in output over 8 hour interval under constant line, load and ambient temperature following 30-minutes warm-up.
- *12. From zero volts to full scale , resistive load and current setting at maximum.

DRAWING NO.: IA549-01-01B			
APPR.	CHK.	ENGR.	DWR.
Doron P.	Doron P.	Oleg B.	<i>[Signature]</i>
July-24-00	July-24-00	24-07-00	

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 30/05/2006
 N.L.I. R&D