ZUP SERIES Programmable CVCC 200W ~ 800W 19Model



Features

- Constant Voltage/Constant Current
- Built-in RS232 & RS485 Interface
- An embedded Microprocessor controller
- Digital Encoder Knob
- Software Calibration
- Last Setting Memory
- Parallel Operation (Master/Slave) Active Current Sharing
- External Voltage or Resistance Programming
- Voltage up to 120V, Current up to 132A
- Active Power Factor Correction: 99%
- 85~265Vac Universal Input Voltage
- 19" Rack Mounted ATE and OEM

Product Line up

- Worldwide Safety Agency Approvals
- CE Mark for LVD and EMC Regulation

Model naming method ZUP 36 - 12 /[



MEASURE SEM F

Conformity to RoHS Directive

This means that, in conformity with EU Directive 2002/95/ EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

	200W		4	100W	800W			
Output Voltage	Output Current Model		Output Current	Model	Output Current	Model		
0-6V	0-33A	ZUP6-33	0-66A	ZUP6-66	0-132A	ZUP6-132		
0-10V	0-20A	ZUP10-20	0-40A	ZUP10-40	0-80A	ZUP10-80		
0-20V	0-10A	ZUP20-10	0-20A	ZUP20-20	0-40A	ZUP20-40		
0-36V	0-6A	ZUP36-6	0-12A	ZUP36-12	0-24A	ZUP36-24		
0-60V	0-3.5A	ZUP60-3.5	0-7A	ZUP60-7	0-14A	ZUP60-14		
0-80V	0-2.5A	ZUP80-2.5	0-5A	ZUP80-5	-	—		
0-120V	0-1.8A	ZUP120-1.8	0-3.6A	ZUP120-3.6	-	—		

TDK·Lambda

ZUP Specifications

		мс	DEL	71106-33	71106-66	71106-132	711010-20	711010-40	711010.90	711020-10	
TIEMS/	UNITS			2060-33	2010-00	2060-132	20110-20	20110-40	20110-00	20F20-10	
OUTPUT VOLTAGE (*1			V		0-6			0-10			
OUTPUT	CURRENT	(*2)	A	0-33	0-66	0-132	0-20	0-40	0-80	0-10	
RATED O	UTPUT POWER		W	198	<u>198 396 792 200 400 800 200</u>						
	LOAD REGULATION				0.005%+2	2mV From No l	oad to Full load	l, constant inpu	ut voltage.		
	LINE REGULATION				0.005%+	1mV From 85-1	32VAC or 170-	265VAC, cons	tant load.		
	RMS RIPPLE (5Hz-1MI	Hz Bandwidth)	mV	5	5	8	5	5	8	5	
	RIPPLE (pk to pk) (20MHz Bandwidth)		mV	50	50	100	50	50	90	50	
CONSTANT	RECOVERY TIME	(*3)	mS		1			0.5			
VOLIAGE	TEMPERATURE COEFFICIENT				30ppm/·	··C from rated	voltage following	ng 30-minute v	varm-up.		
	TEMPERATURE DRI	-T		0.01%+2mV Cha	nge in output over	8-hour interval un	ider constant line,	load and ambient	temp following30-	minute warm-up.	
	UP PROGRAMMING RESP	PONSE TIME (*4)	mS	50	50	60	50	50	60	50	
	DOWN PROGRAMMING	FULL LOAD	mS	50	50	50	50	50	50	50	
	RESPONSE TIME	NO LOAD	mS		250			350	0.070/ /0.0		
	LOAD REGULATION	(*5)		0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	0.01%+5mA	0.07%+10mA	0.01%+5mA	
CONSTANT	LINE REGULATION	(^6)		0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	0.01%+2mA	0.01%+5mA	0.01%+2mA	
CURRENT	RMS RIPPLE (5Hz-1MF	Iz Bandwidth)	mΑ	50	100	200	25	50	100	15	
	TEMPERATURE COE			0.000/.5	100ppm/	····C from rated	current follow	ing 30-minute	warm-up.	0.000/	
	TEMPERATURE DRI	- I (*8)		0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	0.02%+5mA	0.05%+10mA	0.02%+5mA	
		RESOLUTION			0.000/.5.1/	Better than 0.	028% of rated (output voltage			
PROGRAM	VOLIAGE	ACCURACY			0.02%+5mV	Detter there 0	000/ of sets d a	0.02%+8mV			
WING (9)		RESOLUTION				Better than U	.03% of rated c	output current			
		ACCURACY			0.7.5		0.4%+40mA	0.40			
UVERVO	LIAGE PROTECTION	(*10)	V		0-7.5	000 //0000 //00		0-13			
HOLD-U				20mS At 100V/200VAC, rated output voltage and output current.							
				5 uigits (ov, 20v, 30v, 00v, 00v), 5.5 uigits (10v, 120v) accuracy: 0.2% +/- 2 digits.							
DISPLAY				3.5 aigits (132A); All others 3 aigits, accuracy: 0.5% +/- 3 aigits.							
	DROTECTIONS			CV/UU, Alaitii, Fold, LOCal/Remote, Un/Utt.							
OUIFUI											
		(*12)	٨	3 0/1 5	5 6/2 7	11 2/5 /		5 6/2 7	11 2/5 /	2 0/1 /	
		100/2001/)	Δ	15/30 (*7)	15	30	15/30 (*7)	15	30	15/30 (*7)	
INPUT	INRUSH CURRENT (100/2007)		А %	69/72	74/77	74/77	73/77	70/82	77/81	74/78	
			70								
	POWER FACTOR (TY	(P)		0.99 at 100/2001/ac 100% load							
				0 to 50 ···C ; 100% Load.							
				30_00% RH (No dewidrop)							
ENVIRONMENT				-20 to 70 ··· C							
	STORAGE HUMIDITY				10 - 95% RH (No dewdrop).						
	VIBRATION			10-55	Hz. Amplitude	(sweep 1 min)	2G. X. Y. Z. W	hen mounted v	vith mounting s	crews.	
	SHOCK				112, 7 anpitado 1	(01100)	Less than 20G		in in the antiling of		
MECHANICAL	WEIGHT		Ka	2.9	3.2	5.8	2.9	3.2	5.8	2.9	
	SIZE (W x H x D)		mm	200W and	400W units: 70) x 124 x 350.	800W units: 14	40 x 124 x 350	(Refer to outlin	e drawing)	
				By TTL Signal or Dry Contact (Refer to instruction manual).							
	OUTPUT GOOD			Open collector (Refer to instruction manual).							
EXTERNAL	OUTPUT VOLTAGE PROGRAMMING			By Voltage (0-4V) or by Resistance (0-4K) (Refer to instruction manual).							
CONTROL	OUTPUT CURRENT PR	OGRAMMING		By Voltage (0-4V) or by Resistance (0-4K) (Refer to instruction manual)							
FUNCTIONS	REMOTE SENSING			Maximum 0.5V drop on each load wire for model up to 60V and 2V for the 80V, 120V models							
	COMMUNICATION INTERFACE			RS232 and RS485 Built-in, IEEE488 Optional.							
ADDDOVALS SAFETY STANDARDS				UL3111-1, EN61010-1							
EMC STANDARDS					El	N61326-1, IEC	61326-1, FCC	part 15 (class /	۹).		
CONDUCTED EMI						EN550	22-B, FCC-B, 1	VCCI-2	,		
RADIATED EMI						EN550	22-A, FCC-A, '	VCCI-1			
SERIES OPERATION						Up to 2 units (Refer to instrue	ction manual).			
PARALLEL OPERATION					Master - SI	ave method; u	o to 5 units (Re	fer to instruction	on manual).		
COOLING				Forced air by blower fan (Blower fan is mounted within unit).							
WITHSTA	ND VOLTAGE			Input - Cha	assis2.0kVAC	1 min, Input -	Output3.0kV	ac 1 min, Outp	ut - GND500	VAC 1 min.	
ISOLATION RESISTANCE				More than 100MOhm at 25 ···C and 70% R.H.							

- $(^{\star}1)$ 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) Time for recovery to within +/-50mV against current change of 50% to 100%.
- $(\ensuremath{^{\ast}4})$ From zero volts to full scale , resistive load and current setting at maximum.
- (*5) From no load to full load , constant input voltage. (Measure with JEITA RC-9131 probe.)
- (*6) From 85~132Vac or 170~265Vac constant load.

(*7) At cold start Ta=25 ····C.

- (*8) Change in output over 8 hour interval constant line, load and ambient temperature following 30-minutes warm-up.
- $(\ensuremath{^{\ast}}\ensuremath{^{\ast}}\xspace)$ Given for control of the output via the serial communication or via front panel controls.
- (*10) Inverter shut down method, manual reset (OVP will shut down output)
- (*11) For cases where conformance to various safety specs. (UL, IEC, etc.) are required, to be described as 100-240VAC (50/60Hz) on name plate.
- (*12) At 100V/200V and Maximum Output Power.
 - When forced air cooling, refer to derating curve.

ZUP

0-20 0-38 0-60 0-80 0-80 0-120 0-20 0-40 0-6 0-12 0.24 0.5 0.14 0.25 1.43 0.26 1.44 0.25 1.44 0.25 1.44 0.25 1.44 0.25 1.43 1.42 1.42 1.42 1.43 1.44 0.25 1.43 1.44 1.42 1.44 1.42 1.44 1.	ZUP20-20	ZUP20-40	ZUP36-6	ZUP36-12	ZUP36-24	ZUP60-3.5	ZUP60-7	ZUP60-14	ZUP80-2.5	ZUP80-5	ZUP120-1.8	ZUP120-3.6
0-20 0-40 0-6 0-12 0-24 0-35 0-7 0-14 0-25 0-18 0-36 400 800 216 432 864 210 420 80 200 400 276 442 5 5 5 5 5 5 5 5 5 60 70 20	0-2	20		0-36			0-60		0-	80	0-1	120
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S 5 5 5 5 5 5 5 5 5 20 5 <th< td=""><td>400</td><td>800</td><td>216</td><td>432</td><td>864</td><td>210</td><td>420</td><td>80</td><td>200</td><td>400</td><td>216</td><td>432</td></th<>	400	800	216	432	864	210	420	80	200	400	216	432
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0.01%+2mA 0.02%+5mA 0.02%+20MV 0.02%+5mA 0.02%+5mA 0.02%+5mA 0.02%+5mA 0.02%+5mA 0.01%+2mA 0.01%+2mA <td>0.01%+5mA</td> <td>0.07%+10mA</td> <td>0.01%+5mA</td> <td>0.01%+5mA</td> <td>0.07%+10mA</td> <td>0.01%+5mA</td> <td>0.01%+5mA</td> <td>0.07%+10mA</td> <td>0.01%+5mA</td> <td>0.01%+5mA</td> <td>0.01%+5mA</td> <td>0.01%+5mA</td>	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	0.01%+5mA	0.01%+5mA
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	3.2	5.8	2.9	3.2	5.8	2.9	3.2	5.8	2.9	3.2	2.9	3.2
									-			
						-		-				

ZUP

Outline Drawing

[ZUP 200W/400W Units]



[ZUP 800W Unit]



Accessories / optional items (refer to the attached diagram for appearance)

Accessories

1. AC Cord Sets

Three optional cords are possible according to order:

Region	AC Cord	Power Supply Connector	Wall Plug	P/N
				ZUP / J
Europe	10A / 250Vac L=2m	IEC320-C13	INT'L 7 / VII	ZUP / E
				ZUP / O



2. Communication Cable

RS232/RS485 cable is used to connect the power supply to the PC controller

Mode	PC connector	PC connector Communication cable		P/N
RS232	DB-9	Shield Ground , L=1m	EIA / TIA-568A (RJ-45)	ZUP/NC401
RS232	DB-25	Shield Ground , L=1m	EIA / TIA-568A (RJ-45)	ZUP/NC403

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DB-25 (female connector)

DB-9 (female connector)



EIA/TIA (RJ-45)

3. ZUP serial link cable

Used to chain Power Supply to Power Supply from a serial communication bus

Mode	Communication cable	Power Supply Connector Remote IN / OUT	P/N
RS485	Shield Ground , L = 50cm	EIA / TIA-568A (RJ-45)	ZUP / W



ZUP

TDK·Lambda

Options (200W, 400W, 800W Models)

1. FRONT PANEL OUTPUT JACKS P/N: ZUP / L





Outline Drawing: Physical Dimensions in mm. ZUP 200W/400W Units: 70x153x405.9 ZUP 800W Units: 140x153x405.9



Up to 20A output current via front panel jacks.

2. ZUP ASSEMBLIES Dual Output Packing 200W/400W models P/N: ZUP/NL200



3. 19" RACK MOUNTED ATE AND OEM UP TO 2.4 KW

Up to six power units can be assembled into a 19 , 3U rack, kit P/N NL100.

In cases where the entire rack is not occupied with power units, NL101 blank panels can be installed. P/N: ZUP/NL100





ZUF

Application examples

ZUP Configurations

BENCH TOP POWER SUPPLY Parallel (Master / Slave) Single

PARALLEL OPERATION

Master - Slave method: Active current sharing up to 5 units.

REMOTE PROGRAMMING VIA RS232

Up to 31 ZUP units can be controlled via RS232 interface.



REMOTE PROGRAMMING VIA RS485

Up to 31 ZUP units can be controlled via RS485interface.

For operation environments that require high noise immunity or long distance communication, it is recommended to use the built- in RS485interface.



Remote Programming Via GPIB.

GPIB⇔RS485 CONTROLLER

The GP485 is a high performance serial to GPIB Interface It enables a ZUP series with RS485 port to be a Talker, Listener, or controller on the GPIB



Rack Mounted ATE and OEM up to 2.4KW

Six units can be assembled into 19-inch rack / 3U high to meet your configuration requirements

Power Modules Table

Module Type	200W	400W	800W
0 ~ 6V	33A	66A	132A
0 ~ 10V	20A	40A	80A
0 ~ 20V	10A	20A	40A
0 ~ 36V	6A	12A	24A
0 ~ 60V	3.5A	7A	14A
0 ~ 80V	2.5A	5A	
0 ~ 120V	1.8A	3.6A	
19"rack width	1 / 6 width	1 / 6 width	2 / 6 width



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