

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 200-800W Programmable Power Supplies

#### **Features**

- ♦ 2U high
- ◆ Built-in USB, RS-232 & RS-485 Interface
- ◆ Optional LAN, GPIB & Isolated Analog Programming
- ◆ Bench or Rack Mount
- ◆ Constant Current or Voltage Modes
- ◆ Five Year Warranty

### **Key Market Segments & Applications**









Model Selector								
	Voltage Adjust	Current Adjust	Max Power	Ripple 5Hz-1MHz	Noise 20MHz BW	Ripple 5Hz-1MHz	Efficiency %	Front Panel Output Jacks
Model	Range	Range	(W)	(mV)	(mV)	(mA)	(100-200VAC)	(Option)
Z10-20-U	0 - 10	0 - 20	200	5	50	50	80 / 82	Yes
Z10-40-U	0 - 10	0 - 40	400	5	50	50	80 / 82	Yes
Z10-60-U	0 - 10	0 - 60	600	6.25	75	75	80 / 82	Yes
Z10-72-U	0 - 10	0 - 72	720	6.25	75	75	80 / 82	Yes
Z20-10-U	0 - 20	0 - 10	200	5	50	30	82 / 84	Yes
Z20-20-U	0 - 20	0 - 20	400	5	50	30	81 / 83	Yes
Z20-30-U	0 - 20	0 - 30	600	6.25	75	45	82 / 84	Yes
Z20-40-U	0 - 20	0 - 40	800	6.25	75	45	82 / 84	Yes
Z36-6-U	0 - 36	0 - 6	216	5	50	15	83 / 85	Yes
Z36-12-U	0 - 36	0 - 12	432	5	50	15	83 / 85	Yes
Z36-18-U	0 - 36	0 - 18	648	6.25	75	22	84 / 85	Yes
Z36-24-U	0 - 36	0 - 24	864	6.25	75	22	84 / 85	Yes
Z60-3.5-U	0 - 60	0 - 3.5	210	5	50	8	83 / 85	Yes
Z60-7-U	0 - 60	0 - 7	420	5	50	8	83 / 85	Yes
Z60-10-U	0 - 60	0 - 10	600	6.25	75	12	83 / 85	Yes
Z60-14-U	0 - 60	0 - 14	840	6.25	75	12	83 / 85	Yes
Z100-2-U	0 - 100	0 - 2	200	8	80	3	83 / 85	No
Z100-4-U	0 - 100	0 - 4	400	8	80	3	84 / 86	No
Z100-6-U	0 - 100	0 - 6	600	10	100	4.5	84 / 86	No
Z100-8-U	0 - 100	0 - 8	800	10	100	4.5	84 / 86	No

Options				
	Option Code			
Front panel terminals (60V or 24A max)*	-L			
Front panel insulated output sockets (100V or 24A max	)* -L2			
Only one of the options below can be included:				
GPIB Interface*	-IEEE			
Voltage Programming Isolated Analog Interface*	-IS510			
Current Programming Isolated Analog Interface*	-IS420			
LAN Interface	-LAN			

Part Number Example
Z10-20-LAN-L-U

<sup>\*</sup>Requires wide body (105mm) case style

Accessories	
	Part Number
19" Rack Housing	
(Accepts four 105mm width units or six 70mm width units)	Z-NL100
Blanking Panel for 19" Rack (70mm)	Z-BP
Blanking Panel for 19" Rack (105mm)	Z-WBP
Dual/Triple Housing	
(Accepts two 105mm case units or three 70mm case units)	Z-NL200
Serial Link Cable (One is included with each power supply)	Z-RJ45
Communication Cable RS485	Z-485-9
Communication Cable RS232	Z-232-9
North American Line Cord (One included with -U suffix)	Z-U

Specifications (See website for detailed specifications)								
Model		Z10	Z20	Z36	Z60	Z100		
Load Regulation	CV	2mV +	0.01% of rated	l voltage over 0	) - 100% load c	hange		
Line Regulation	CV			over a 85 - 132				
Recovery Time (1)	CV		J	1ms		J		
Temperature Coefficient	CV		30ppm/°C fo	llowing 30 minu	ute warm up			
Temperature Stability	CV	0.02% of rate		8 hours followi		varm up time		
Warm up Drift (2)	CV			tage + 2mV of r				
Up programming response time (10-90% or 90-10% of Vmax)	CV	15ms	30ms	30ms	50ms	50ms		
Down programming resp time (CV) (10-90% or 90-10% of Vmax)		10ms	30ms	30ms	50ms	50ms		
Down programming resp time (CV) (90-10% of Vmax)	Zero load		200ms	250ms	310ms	900ms		
Load Regulation	CC	5mA + 0.01% of rated current over 0 - 100% Vout change						
Load Regulation thermal drift		< 0.05% of rated current over 30 minutes after load change						
Line Regulation		2mA + 0.01% of rated current over a 85 - 132 or 170 - 265VAC line change						
Temperature Coefficient		100ppm/°C of rated current after 30 minute warm up time						
Temperature Stability	CC			8 hours followi				
Warm up Drift (2)	CC	0.0070 01 1410		1% of rated cur	•	raini ap timo		
Vout & lout programming & readback resolution	Digitally			of rated voltag				
Vout & lout programming & readback resolution	Digitally	< 0		voltage, < 0.1%		nt		
Voltage & Current Programming	Analog			or 0-10V) or Re				
Voltage & Current Monitoring	Analog			ge (user selecta				
Overvoltage Shutdown (user programmable)	V	0.5 - 12	1 - 24	2 - 40	5 - 66	5 - 110		
Overtemperature Protection	V	0.5 - 12		ole - latched or		3-110		
Display - Voltage	_	1 digite		% of rated volta		1 count		
Remote On/Off	_			ry contact relay				
Output Good		Бу арріїс		Collector, Low		ne logic)		
Remote Sense Compensation (per wire)		1	Open					
Communication Interface	V	1   1   2   3   5 RS232, RS485 & USB standard, IEEE488 (GPIB) & LAN optional						
	_			cal units (with e				
Series Operation	-					)		
Parallel Operation	-			in master-slave				
Input Voltage / Frequency (3)	-		00-	265VAC, 47-63	пΖ			
Inrush Current	-			< 25A				
Hold Up Time (Typical)	ms	0	amandiaa with F	16ms	222 A (0 00 to m	\		
Power Factor Correction	°C	C	omplies with E	N61000-3-2 CI	ass A (0.99 typ	)		
Operating Temperature				0 - 50°C				
Storage Temperature	°C			-20 to +85°C	40 050/DI			
Humidity (non condensing)	%RH	Operating: 10 - 90%RH, Storage 10 - 95%RH Internal temperature controlled fan						
Cooling	-	L/D ( OND				V/DO 4		
Withstand Voltage		I/P to GND 2kVAC, I/P to O/P 3kVAC, O/P to GND 1380VDC 1 min						
Insulation Resistance	-	>100M at 25°C & 70%RH						
Vibration (non operating)	-			EC60068-2-64				
Shock	-			ine, 11ms. IEC		<b>(=)</b>		
Safety Agency Certifications		UL61010-1, EN61010-1, IEC61010 (Designed to meet UL/EN60950-1)						
Immunity		IEC61326 (Designed to meet EN55022 / EN55024)						
Conducted & Radiated EMI	-			3, FCC part 15-				
Size (H x W x D) (Excluding handles and busbars)		Standard body 83 x 70 x 350mm; Wide Body 83 x 105 x 350mm						
Weight		Standard body 1.9kg; Wide Body 2.4kg						
Warranty	yrs			Five Years				

#### Notes:

- (1) Recovery to within 0.5% of rated voltage after a load change of 10-90% (Output current 10-100% of Imax)
- (2) Over 30 minute warm up time after power on
- (3) Derate for 85-100 VAC; Z10-72-U (66A), Z20-40-U (36A), Z36-24-U (20A), Z60-14-U (12.5A), Z100-8-U (7.5A)

For Additional Information, please visit us.tdk-lambda.com/lp/products/zplus-series.htm

