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





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Industrial	Test	
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Model S	elector							
	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

*Requires wide body (105mm)	case style
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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 fo	r deta	iled spec	ifications	s)		
Model		Z10	Z20	Z36	Z60	Z100
Load Regulation	CV	2mV +	0.01% of rated	d 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 fc	llowing 30 mini	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	190ms	200ms	250ms	310ms	900ms
Load Regulation	СС	5mA +	0.01% of rated	d current over 0	- 100% Vout c	hange
Load Regulation thermal drift	CC			ent over 30 minu		
Line Regulation	CC			over a 85 - 132		
Temperature Coefficient	CC			current after 30		
Temperature Stability	CC			8 hours followi		
Warm up Drift (2)	CC	0.0070 01 1410		1% of rated cur		raim ap amo
Vout & lout programming & readback resolution	Digitally			of rated voltage		
Vout & lout programming & readback accuracy	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	0.0 - 12		ble - latched or		0 - 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)	V	1 1	1	2	3	5
Communication Interface	V		1 2/195 & LISD of	andard, IEEE48		-
Series Operation	_			ical units (with e		
Parallel Operation	-			in master-slave)
Input Voltage / Frequency (3)	-			265VAC, 47-63		
Inrush Current	-		65-	< 25A	ПΖ	
	-					
Hold Up Time (Typical)	ms		omplies with E	16ms	000 A (0 00 tup	\
Power Factor Correction	°C	C	omplies with E	EN61000-3-2 CI 0 - 50°C	ass A (0.99 typ)
Operating Temperature	°C			-20 to +85°C		
Storage Temperature) tin 10		10 OE0/ DL	•
Humidity (non condensing)	%RH			90%RH, Stora		l
Cooling	-	L/D to OND		emperature con		V/DO 4
Withstand Voltage	-	I/P (O GND)		O/P 3kVAC, O/I		ADC I WIU
Insulation Resistance	-			M at 25°C & 70		
Vibration (non operating)	-			IEC60068-2-64		
Shock	-	111 04646 4		sine, 11ms. IEC		/EN1000550 ()
Safety Agency Certifications	-			C61010 (Design		
Immunity	-	IEC		ed to meet EN		24)
Conducted & Radiated EMI	-			B, FCC part 15-		050
Size (H x W x D) (Excluding handles and busbars)		Standard b		350mm; Wide		x 350mm
Weight	kg		Standard bo	dy 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



Mouser Electronics

Authorized Distributor

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TDK-Lambda:

Z36-12-LAN-L-U Z20-20-IEEE-U Z100-4-IEEE-U Z-NL200 Z20-20-LAN-L-U Z60-7-LAN-L-U Z-WBP Z20-20-LAN-U Z36-12-LAN-U Z100-4-IS420-U Z10-40-IEEE-U Z100-4-LAN-U Z36-12-IEEE-U Z10-40-IS420-U Z60-7-IEEE-U Z20-20-IS420-U Z60-7-IS510-U Z60-7-IS420-U Z60-7-LAN-U Z36-12-IS420-U Z-BP Z10-40-LAN-L-U Z10-40-L-U Z-485-9 Z20-20-L-U Z60-7-L-U Z-RJ45 Z10-40-LAN-U Z10-40-IS510-U Z36-12-IS510-U Z-232-9 Z20-20-IS510-U Z100-4-IS510-U Z-U