200 to 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	
Z10-75-U	0 - 10	0 - 75	750	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	

ption Code				
-L				
Only one of the options below can be included:				
-IEEE				
-IS510				
-IS420				
-LAN				

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

^{*}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	Z-BP
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-323-9
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			l voltage over 0				
Line Regulation	CV			over a 85 - 132				
Recovery Time(1)	CV		3	1ms		9 -		
Temperature Coefficient	CV	30ppm/C following 30 minute warm up						
Temperature Stability	CV	0.02% of rated voltage over 8 hours following 30 minute warm up time						
Warm up Drift(2)	CV	<0.05% of rated voltage + 2mV of rated output voltage						
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	CC							
Load Regulation thermal drift	CC	5mA + 0.01% of rated current over 0 - 100% Vout change < 0.05% of rated current over 30 minutes after load change						
Line Regulation	CC	2mA + 0.01% of rated current over a 85 - 132 or 170 - 265VAC line change						
Temperature Coefficient	CC	100ppm/C of rated current after 30 minute warm up time						
Temperature Stability	CC	0.05% of rated current over 8 hours following 30 minute warm up time						
Warm up Drift(2)	CC	0.0070 01 1410		.1% of rated cu		ann ap anc		
Vout & lout programming & readback resolution	Digitally							
Vout & lout programming & readback resolution Vout & lout programming & readback accuracy	Digitally	< 0.012% of rated voltage/current < 0.05% of rated voltage, < 0.1% of rated current						
Voltage & Current Programming	Analog			or 0-10V) or Re				
Voltage & Current Monitoring	Analog			e (user selectal				
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 1				1 count		
Remote On/Off	_	4 digits. Accuracy 0.5% of rated voltage or current +/- 1 count By applied voltage or dry contact relay (user selectable logic)						
Output Good	_	Open Collector, Low on fail						
Remote Sense Compensation (per wire)	V	1	1	2	3	5		
Communication Interface		-	•		-	<u> </u>		
Series Operation	-	RS232, RS485 & USB standard, IEEE488 (GPIB) & LAN optional Up to two identical units (with external diodes)						
Parallel Operation	_	Up to five units in master-slave configuration						
Input Voltage / Frequency	_	85-265VAC, 47-63Hz						
Inrush Current	_	< 25A						
Hold Up Time (Typical)				16ms				
Power Factor Correction	ms	C	omplies with E	N61000-3-2 Cla	acc A (0 00 typ	\		
Operating Temperature	°C		omplies with E	0 - 50°C	ass A (0.99 typ)		
Storage Temperature	C			-20 to +85°C				
	%RH	0	porating: 10		70 10 050/ DU			
Humidity (non condensing) Cooling		U		90%RH, Storag				
	-	I/D to CND 1				/DC 1 min		
Withstand Voltage Insulation Resistance	-	I/P to GND 2kVAC, I/P to O/P 3kVAC, O/P to GND 1380VDC 1 min >100M at 25°C & 70%RH						
	-	100M at 25°C & 70%RH IEC60068-2-64						
Vibration (non operating)	-							
Shock	-	<20G, half sine, 11ms. IEC60068-2-27 LIL 64040.4. FN64040.4. IEC64040 (Decigned to most LIL /FN60050.4)						
Safety Agency Certifications	-	UL61010-1, EN61010-1, IEC61010 (Designed to meet UL/EN60950-1)						
Immunity		IEC61326 (Designed to meet EN55022 / EN55024)						
Conducted & Radiated EMI		EN55022-B, FCC part 15-B, VCCI-B						
Size (H x W x D) (Excluding handles and busbars)		Standard body 83 x 70 x 350mm; Wide Body 83 x 105 x 350mm Standard body 1.9kg; Wide Body 2.4kg						
Weight	kg		Standard bo		Body ∠.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) Wide body case is used on

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

