

Z+ SERIES

Laboratory Power Supplies: 200 ~ 800W



Features

- High Power Density: 2U height
- Wide Range Input: 85-264Vac
- Active Power Factor Correction: 0.99
- Built-in USB, RS-232 & RS-485 Interface
- Auto-Re-Start / Safe-Start: user selectable
- Last-Setting Memory
- Front panel Lock selectable from Front Panel or Software
- Advance Parallel Master / Slave (controlled by Master)
- External Analog Programming & Monitoring (0-5V or 0-10V)
- Optional Programming: (one only can be installed)
 - IEE (GPIB Interface)
 - IS510 (Voltage Programming Isolated Analog)
 - IS420 (Current Programming Isolated Analog)
 - LAN (LXI Interface)

General Specifications

Input Voltage	85 ~ 264VAC 1phase	Remote Sense	Yes, refer to manual
Input Frequency	47 ~ 63Hz	Communication Interface	RS232, RS485 & USB – Standard
Input Current	200W : 2.7A @ 110Vac 1.3A @ 230Vac 400W: 5.2A @ 110Vac 2.5A @ 230Vac	Series Operation	Up to two identical units with external diodes
Efficiency	Model dependent , typically 88%	Parallel Operation	Up to five units in Master –Slave configuration
Power Factor	0.99 (EN61000-3-2)	Hold up Time	16ms
Load Regulation	CV: 2mV +0.01% of rated voltage	Operating Temp.	0-50°C
Line Regulation	CV: 2mV +0.1% over 85-264VAC	Humidity	Operating 10-90% RH
Temperature Stability	CV: 0.02% of rated voltage over 8 hours following 30 mins warm up time	Cooling	Internal temperature controlled fan
Programming Response Time	Refer to manual for details	Isolation	Input – Output / Ground: 3kVAC / 2kVAC Output – Ground 1380VDC
Load Regulation	CC: 5mA +0.01% of rated current	Vibration	IEC60068-2-64 non operating
Line Regulation	CC: 2mA +0.01% of rated current	Shock	IEC60068-2-24 <20G half sine 11ms
Temperature Stability	CC: 0.05% of rated voltage over 8 hours following 30 mins warm up time	Safety Approvals	UL61010-1, EN601010-1
LED Display	V & A digital meters: Resolution: <0.12% of rated V / A Accuracy: <0.05% of rated V, <0.1% of rated A	Immunity	IEC61326 (Designed to EN55022 / EN55024)
V & I Programming	Analog: By 0-5V or 0-10V or resistance (0-5k or 0-10k)	EMC	Conducted: EN55022-B, FCC part 15- Radiated: EN55022-B, FCC part 15-B
V & I Monitoring	0-5V or 0-10V User selectable (±1% accuracy)	Connections	Input: IEC socket Output: Busbars
Overvoltage Shutdown	Yes User programmable.	Dimensions	83 x 70 x 350mm (H*W*L)
Overtemperature Protection	User selectable: Latched or Non-latching	Weight	2kg
Display	4 digits accuracy 0.5% of rated Volatage or Current ± 1count.		
Remote ON/OFF	By applied voltage or dry contact relay : User selectable		
Output Good	Open Collector, Low in Fail		

- **Manual & Full Application details available from our website or contact our office.**

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Model 200# \$\$W	Output		Power W
	V	A	
Z10-20	0-10V	0-20A	200W
Z10-40	0-10V	0-40A	400W
Z20-10	0-20V	0-10A	200W
Z20-20	0-20V	0-20A	400W
Z36-6	0-36V	0-6A	210W
Z36-12	0-36V	0-12A	430W
Z60-3.5	0-60V	0-3.5A	210W
Z60-7	0-60V	0-7A	420W
Z100-2	0-100V	0-2A	200W
Z100-4	0-100V	0-4A	400W

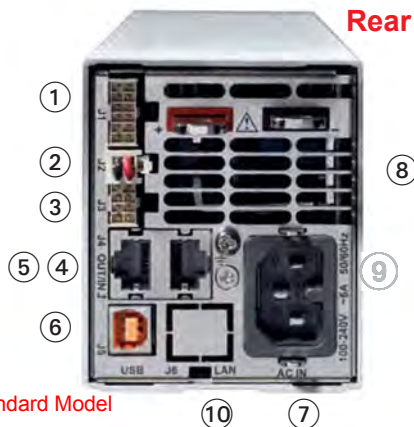
Model 600/800W	Output		Power W
	V	A	
Z10-60	0-10V	0-60A	600W
Z10-75	0-10V	0-75A	750W
Z20-30	0-20V	0-30A	600W
Z20-40	0-20V	0-40A	800W
Z36-18	0-36V	0-18A	648W
Z36-24	0-36V	0-24A	864W
Z60-10	0-60V	0-10A	600W
Z60-14	0-60V	0-14A	840W
Z100-6	0-100V	0-6A	600W
Z100-8	0-100V	0-8A	800W

Front Panel Display

- AC ON/OFF Switch
- Air Intake allows zero stacking for maximum system flexibility and power density.*
- Reliable encoder controls Output Voltage and power supply setting.
- Volt Display shows Output Voltage and directly displays and power supply settings.
- Reliable encoder controls Output Current, and power supply setting.
- Current Display shows Output Current and power supply setting.
- Function/Status LEDs:
 - Alarm
 - Foldback Mode
 - Fine Control
 - Remote Mode
 - Preview Settings
 - Output On
- Pushbuttons allow flexible user configuration
 - Coarse and Fine adjustment of Output Voltage/Current and Advanced Parallel Master or Slave
 - Preview settings and set Voltage/Current with Output OFF, Front Panel Lockout
 - Set OVP, UVP, UVL Limits
 - Set Current Foldback
 - Local/Remote Mode and select Address and Baud Rate
 - Output ON/OFF and Auto-Start/Safe-Start Mode
 - * Menu
- Optional Output Jacks for modules up to 60V: 24A Max



Rear Panel Display



Standard Model



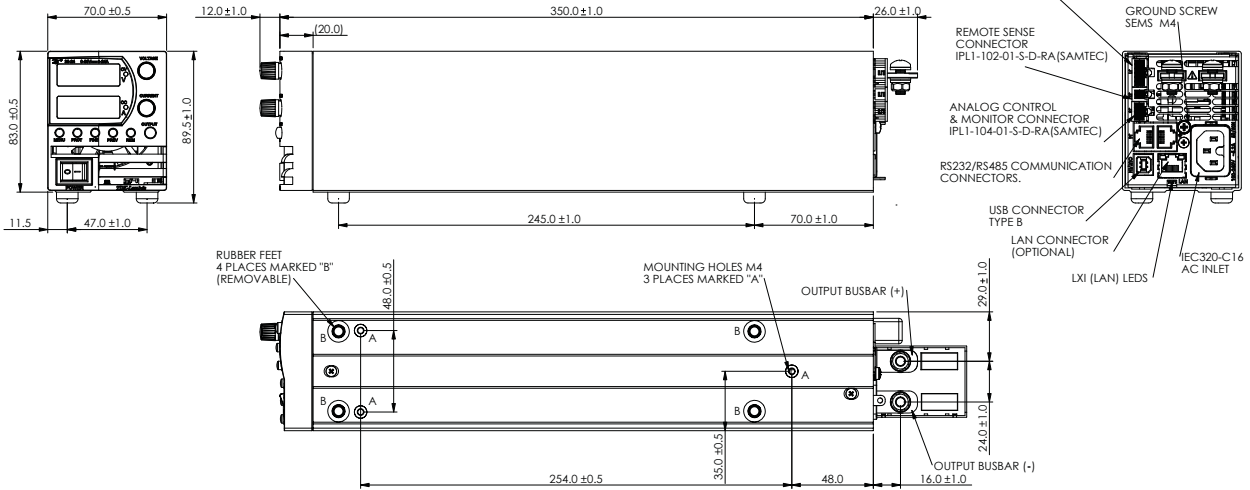
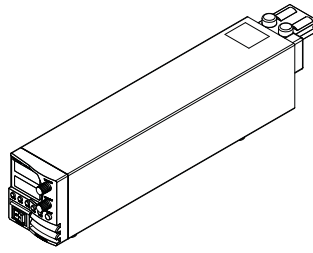
With optional GPIB Interface

- Connector allows (Non-isolated) Analog Program and Monitor and other functions.
- Remote/Local Output Voltage Sense Connections.
- Signal Connector
- RS-232/RS-485 INPUT Remote Serial Programming.
- RS-485 OUTPUT to other Z+ Power Supplies.
- USB Interface
- Wide-Range Input 85-265VAC continuous, 47/63Hz with Active Power Factor Correction (0.99 typical)
AC Input Connector: IEC320 -C16.
- Exhaust air exits at the back. Allows vertical stacking of units without any separation between units
- Output Connections: Rugged Busbars for 6V up to 100V.
- Optional Interface Position for LAN Interface.
- Optional Interface Position for GPIB Interface (shown) or Isolated Analog Interface.

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Outline Drawings: Z200W ~ Z800W



Outline Drawings: Z200W ~ Z800W (with optional IEEE, Isolated Analog Interface)

