





Variable Regulated DC Power Supplies PAD-LA Series



Type III, Type IV, Maximum Output Voltage (16V to 250V) 10 models High Performance and High Reliability Power Supplies in various models



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com

Introducing New "PAD-LA" Series variable regulated DC Power Supply as successor of "PAD-L Series" with well established recognition for reliability.



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Use large LED monitor with high visibility for 4digits display Adopting with the Digital display from former Analog type, which display the output Voltage, and Current. Furthermore, by locating each indication of the CV/CC and ON/OFF operation around the display, it can easily confirm

the required information immediately.

Output and Set Switch

In separate to the Power Switch of the unit, it has equipped the "Output Switch" and also the "SET Switch" which enable to confirm the setting value of voltage and current even when the output is off.

Putting together of the mode setting switches Improving the convenience of operation, we have put together all of the switches located on the upper right area of the unit for the function of Output, Adjusting display, variable resistor for setting of OVP and OCP, Setting operation mode for Analog Remote control, one control parallel operation (or series operation) to set for Master or Slave unit.

(Over Current Protection circuit) In addition to OVP (Over Voltage Protection circuit) function, it is equipped with OCP (Over Current Protection circuit) as standard.

Output Monitoring

It is equipped with the Monitor Output

Lineup

ΥΡΕ Ι

16V PAD16-100LA PAD36-60LA 36V 60V PAD60-35LA TYPE III PAD72-30LA 72V 110V PAD110-20LA 250V PAD250-8LA 36V PAD36-100LA 60V PAD60-60LA TYPE IV PAD110-32LA 110V 250V PAD250-15LA

Terminal for Output Voltage and Output Current as standard. The Monitor Output for Output Voltage is 0 to approx. 10V at 0 to the rated output voltage, and for the Output Current is 0V to approx. 1V at 0 to the rated output current.

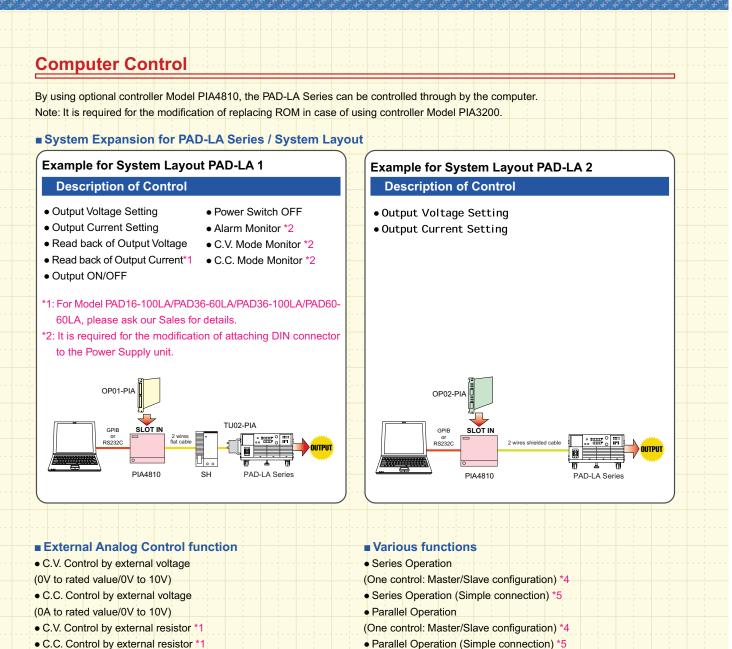
Control Terminals

Adopting the screw less wire clamp for the control terminal block on the rear panel that was used to be the harmonica terminal.





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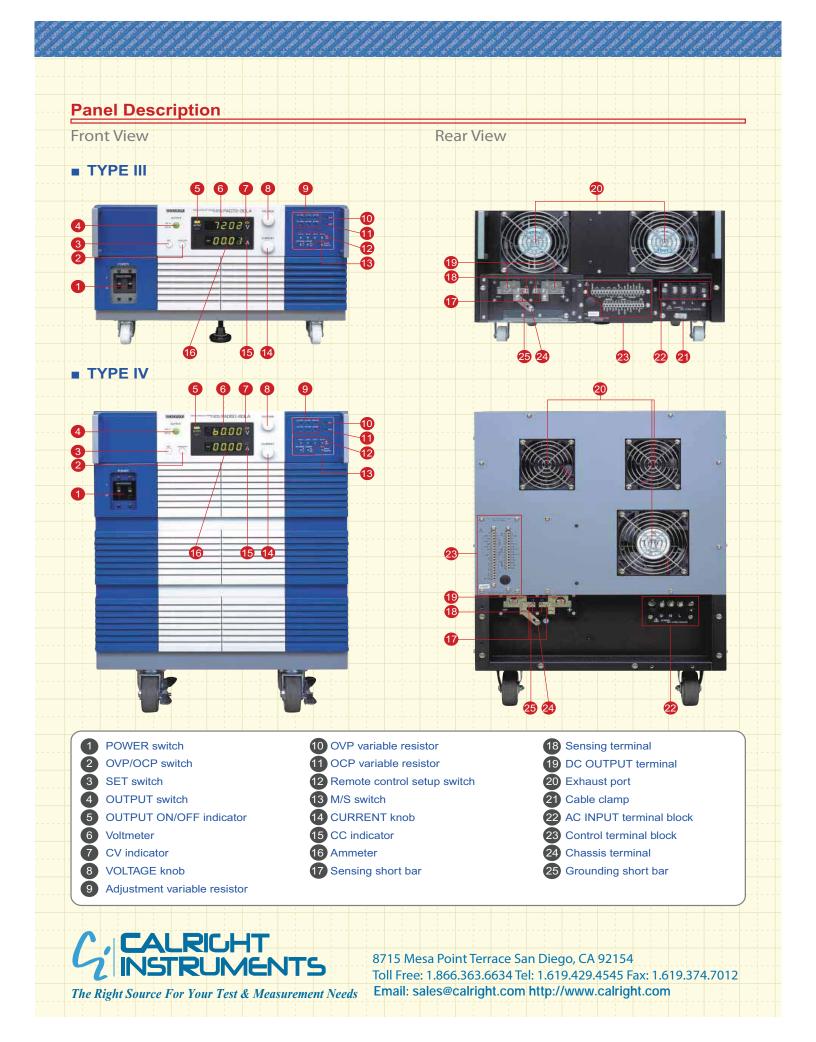
- Output ON/OFF by external contact *2
- Power Switch shut off by external contact *3
- *1: It can be changed by Setting Switch for controlling the "0 to rated value/10KΩ to 0Ω" from the normal setting of "0 to rated value/ 0Ω to 10kΩ".
- *2: The Setting Switch can change The Output OFF for using contact open as it is normally used for Output OFF by contact short.
- *3: It can be changed for contact open shut off by modification as it is normally shut off by contact short.

- Remote Sensing function
- OVP (Over Voltage Protection circuit)
- OHP (Over Heat Protection circuit)

*4: Master/Slave configuration can be used for the same rated output model (Series Operation: Up to 2units for 250V model, up to 3 units for other models, Parallel Operation: up to 3units)
*5: For Simple connection of Series Operation, please apply to the lowest value of rated voltage and current of the unit to set the Voltage and Current.

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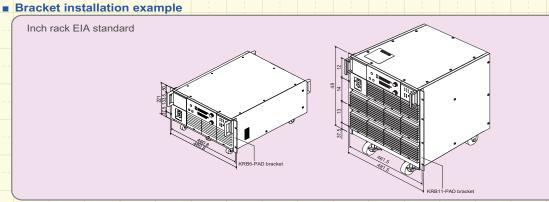
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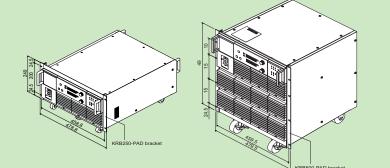
Rack mount bracket

	Inch rack E	IA standard	Milli rack JIS standard		
Туре	Model	Unit	Model	Unit	
III	KRB5-PAD	5	KRB250-PAD	5	
IV	KRB11-PAD	11	KRB500-PAD	10	

Note: The unit has Intake port for the ventilation of forced cooling, therefore, it is required to install the blank panel in case of assembling the unit into the rack mount system. Please refer to the detail in the "Sample figure of blank panel assembly".



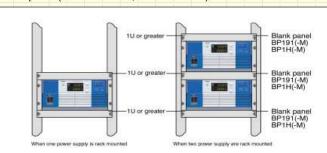
Milli rack JIS standard



Brank panel

Unit	Inch rack E	IA standard	Milli rack JIS standard			
	Plate type	Mesh type	Plate type	Mesh type		
1	BP191	BP191-M	BP1H	BP1H-M		
Note: It is not necessary for installing the blank panel in case of rack mount for type IV.						

Brank panel installation example Required size for the width of blank panel (unit JIS: 50mm, EIA: 44.45mm)



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The Right Source For Your Test & Measurement Needs

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Unit:mm

Unit:mm

Specifications

Output		tput	Ripple		Power supply fluctuation		Load fluctuation		Dimenstions	Weight	In	put
Model	CV	CC	CV	CC	CV	CC	CV	CC	Turne	Approx.	Voltage	Power
	V	А	mVrms	mArms	0.005%+mV	mA	0.005%+mV	mA	Туре	kg	V±10%	kVA
PAD16-100LA	0 to 16	0 to 100	0.5	100	1	3	2	5	III	65	200	3.3
PAD36-60LA	0 to 36	0 to 60	0.5	10	1	3	2	5	III	66	200	3.8
PAD36-100LA	0 to 36	0 to 100	0.5	50	1	3	2	5	IV	96	200	7.1
PAD60-35LA	0 to 60	0 to 35	0.5	8	1	3	2	3	III	64	200	3.4
PAD60-60LA	0 to 60	0 to 60	0.5	20	1	3	2	5	IV	96	200	6.9
PAD72-30LA	0 to 72	0 to 30	0.5	6	1	3	2	3	III	64	200	3.8
PAD110-20LA	0 to 110	0 to 20	1	4	1	1	2	3	III	63	200	3.8
PAD110-32LA	0 to 110	0 to 32	1	10	1	3	2	5	IV	94	200	6.7
PAD250-8LA	0 to 250	0 to 8	5	4	2	1	3	3	IV	63	200	3.4
PAD250-15LA	0 to 250	0 to 15	5	5	2	1	3	3	IV	92	200	6.7

Constant voltage temperature coefficient

50p.p.m./°C (standard value) Transient response time

- Time until the output voltage recovers to within 0.05%+10mV of the set value when the output current changes 5% to 100%.
- 50µs (standard value)
- Ripple noise

5Hz to 1MHz, $\pm 3dB$ bandwidth, average value indication, measured by grounding plus or minus output with an rms value display AC voltage waveform

Meters	
Voltmeter	Maximum display 4digits
Display error	±(0.5% of reading+5digit)*1
Ammeter	Maximum display 4 digits
Display error	±(1% of reading+5digit)*1
	* 1: at 23°C ±5°C

Ground

Plus or minus terminal can be grounded Isolation Voltage

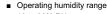
±250V DC excluding PAD110-20LA/PAD250-8LA/PAD110-32LA/PAD250-15LA of which Isolation Voltage is ±500V

Insulation resistance

- Chassis-input: 500V DC 30MΩ min. Output-chassis: 500V DC 20MΩ min.
- Withstanding voltage
- No abnormalities when 1500VAC applied for 1 minute.
- Operating temperature range 0 to 40°C

Dimensions

TYPE III



10 to 90% RH

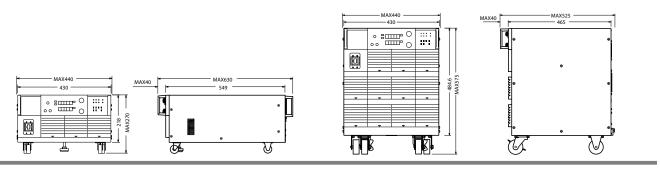
- Cooling system
- Forced air cooling using a fan
- Protection devices
 - Constant voltage, constant current automatic crossover
 - Adjustable Overvoltage Protection circuit (OVP) (preset voltage range 10% to 110%)
 - Adjustable Overcurrent Protection circuit (OCP) (preset current range 10% to 110%)
 - Voltage detection circuit
 - (smoothing capacitor section)
 - Overheating protector (OHP)
 - Semiconductor cooling heat sink section
- Temperature fuse (subtransformer)
- Input/output fuse
- Input surge absorber
- Dimensions

Type III:430(440)W X 218(275)H X 549(625)Dmm

- Type IV:430(440)W X 484.6(575)H X 465(525)Dmm
- Accessories
- Operation manual : 1 copy , Guard caps : 2 pcs , Weight sticker : 1 sheet Type III
- Power cord : 3-core cabtire cable for 200 VAC 1 pc. ($3.5 \text{mm}^2, \text{approx}.3 \text{m}$) Type IV
- Power cord : Single wire cable 3 pcs. ($8mm^2$, approx . 3m) , Cable clamper : 1 set

TYPE IV

Unit:mm



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