



# LED Driver Aging Rack

## (LEDRACK-100W192P)

### Brochure

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## LED Driver Aging Rack LEDRACK-100W192P



### LEDRACK-100W192P

LEDRACK-100W192P LED Driver Aging Rack is applied to the production line for the finished products testing. With features of simplified operation and nice-looking, the workers can operate it at very short time. This system can meet the requirements of IEC62384, GB24825-2009 and other relative standards.

#### **Configuration:**

The LEDRACK-100W192P includes three parts: LED Driver Aging Rack, Aging Control System and LED Load Module.

#### **Specifications:**

##### **1. LED Driver Aging Rack:**

- Dimension: L2050\*H1810\*D800mm.
- Application range: LED driver and multi channel driver power aging. It has equipped with computer operation and monitor system. The working condition can be set by the computer, and the computer will record real time data to do statistical analysis.
- The parameters of load can be set freely on the software, to monitor the real time voltage, current, and power etc.
- Load mode: CC, CV, CR, CP, and LED
- The channels are parallel connected under arbitrary load mode, which can allow product power expansion.
- It can do driver power aging from low voltage to high voltage, and low current to high current.
- It can be used together with driver aging control system software.
- It has equipped with multiple DC adapter board interfaces to meet the needs of different products output interfaces.

- The aging rack has 6 layers, the height of each layer is about 170mm, and the width of each test zone is 380mm.
- The top cover plate can be disassembled. Besides, the maintenance door and the load area are equipped with independent exhaust outlet.
- The sliding door is made of aluminum alloy toughened glass, which can make sure heat preservation and constant temperature in the product zone, and the temperature can be set.
- It can combine up to 18pcs aging rack to work together, and all the racks will be controlled and monitored together by software. Also the racks can be installed and assembled flexibly, and will not affect each other.
- Input power: 380V.
- The equipment does not include the external wiring and ventilation installation.
- Automatic current switching function (optional)
- AC power meter to measure modules, and test power input characteristics (optional).
- Temperature monitoring function at product zone (optional).
- PWM dimming and two sets of logic control signal function (optional).

## 2. Aging Control System:

- Equipped with 1 set of Advantech industrial computer, 17-inch DELL LCD screen, keyboard and mouse.
- Software function:
  - 1) Special XH-5 version monitoring software with lifetime free upgrade. It can control 18pcs aging racks at the same time.
  - 2) The aging parameters setting interface is visual, including load mode, load value, products specifications range, aging temperature and so on. It can save and set file formats, and the operator can enter one key to lead the setting file to start aging.
  - 3) Monitoring each products input and output working status, including output current, output voltage, input current /voltage/power, power factor, efficiency etc. electrical parameters.
  - 4) Programmable aging timing sequence, including input ON/OFF switching timing sequence, input voltage selection timing sequence and so on.
  - 5) Automatically record all the data of the whole aging progress.
  - 6) It allows customer to check the products' real time input and output characteristic curves.
  - 7) Integrated data recording and analyzing statistical function, which can search history data records according to the products barcode or models, and generated by P control chart. Also it has CPK calculation function
- 1 set of photoisolator.
- 1 set of Multi functional controller; 12 groups of ON/OFF control signal output; 3 groups signal of relay switch control; 8 groups of K type thermocouple temperature acquisition; 3 phases AC voltage acquisition; RS485 communication and so on.

### 3. LED Load Module Specification:

Power Measurement	Range	100 W
	Resolution	50mW
	Accuracy	$\pm (1\%+0.1\%FS)$
Working Temperature		0~45℃
Service Life		80,000H

Channel number		4 channels		
Channel parallel		support		
Maximum input power per channel		100W		
Module total maximum input power		400W		
Input current/channel		0.05A~10A		
Minimum operating voltage		1V@2.5A、3V@10A		
Maximum input voltage		500V		
CC (Constant current) Load Mode	Range	Low range: 0.05A~2.5A	High range: 2.5A-10A	
	Resolution	1mV	10mV	
	Accuracy	$\pm (1\%+0.1\%FS)$		
CV (Constant voltage) Load Mode	Range	Low range: 1V~50V	High range: 50V~500V	
	Resolution	0.012V	0.12V	
	Accuracy	$\pm (1\%+0.1\%FS)$		
CR (Constant resistance) Load Mode	Range	0.4 $\Omega$ ~9.999 $\Omega$		
	Resolution	12bit		
	Accuracy	$\pm (1\%+0.1\%FS)$		
CP (Constant power) Load Mode	Range	100W		
	Resolution	50mW		
	Accuracy	$\pm (1\%+0.1\%FS)$		
LED Load Mode	Range	VO	Low range: 1V~50V	High range: 50V~500V
		Io	Low range: 0.05A~2A	High range: 2A-10A
		Rd	0.001~0.999	
	Resolution	Vo	0.012V	0.12V
		Io	1mA	10mA
		Rd	0.001	
	Accuracy	$\pm (1\%+0.1\%FS)$		
Current Measurement	Range	Low range: 0.05A~2.5A	High range: 2.5A-10A	
	Resolution	1mA	10mA	
	Accuracy	$\pm (1\%+0.05\%FS)$		
Voltage Measurement	Range	Low range: 1V~50V	High range: 50V~500V	
	Resolution	0.005V	0.05V	
	Accuracy	$\pm (1\%+0.1\%FS)$		

### Software Interface:

