

Photovoltaic array SIMULATOR (1800Wp)



This power supply takes slope and regulation criteria of several photovoltaic modules, with the following characteristics:
 Programmation of the short circuit current and of the open voltage, from:

- manual control by front multiturn potentiometers
- external control from voltage 0/10V
- automatic cycle according to real registration of an external photovoltaic cell, in accordance with real time cycles*.

Programmable slopes thanks to menu

Control :

- by alphanumeric LCD display with several menus
- RS232 link
- analogical signal from 0 to 5V
- maximal PV power dry contact relay with programmable tolerance.

* Connected to AINELEC PV Simulator, a standard photovoltaic cell collects a day sunshine. From this sample, an extrapolation is done about the entire PV array by a multiplying coefficient. It is possible to speed up or slow down the day sunshine curve covering. Plots describing sunshine curve can be also programmed manually.

Electrical characteristics:

Output power: 1800W

Input: 230V+/-10% or 110V 50-60Hz

Programmable voltage from 10% to 100% of Vomax, by multiturn potentiometer Vo (step of 1%)

Current of cell solar: from 0,5A to 4A adjustable by multiturn

Ipv, to get Icc max on the power supply

Slopes programmable Rs/Rp of 0 to 50% (step of 0,5%)

Adjustable internal clock (hour, minute)

Selection switch manual, PV and automatic

Interface:

LCD display with 2 lines of 16 characters

2 leds indicate the regulation zone

RS232 output, on DIN 9 pins, protocol 4800 bauds ASCII VT100

Analogical signals on DIN card 5 pins 180°: Is/Vs/Pmax/Ps of 0 to 5V full scale.

Protective functions:

Security: primary differential, output cutout

Isolation between input and output: 3kV

Forced ventilation to the rear of the cabinet

Dry contact for defect, breaker circuits and PowerMax

Mechanical characteristics:

Cabinet of table of type 3U/84E - color RAL7032

Outlines: 500x180x400mm (LxHxP)

Weight: about 13kg

Feet to the rear for main wires

Reclining transport handfull by selector

Product range:

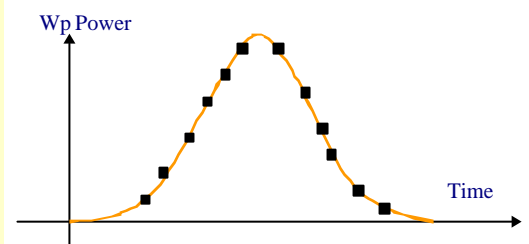
Simulators	Icc max (A)	Vo max (V)
ALS75V25A	25A	75V
ALS90V20A	20A	90V
ALS150V12A	12A	150V



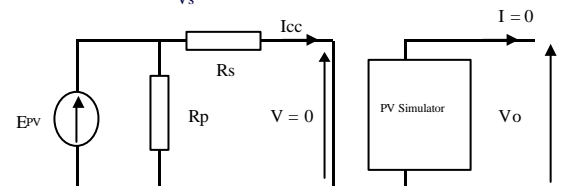
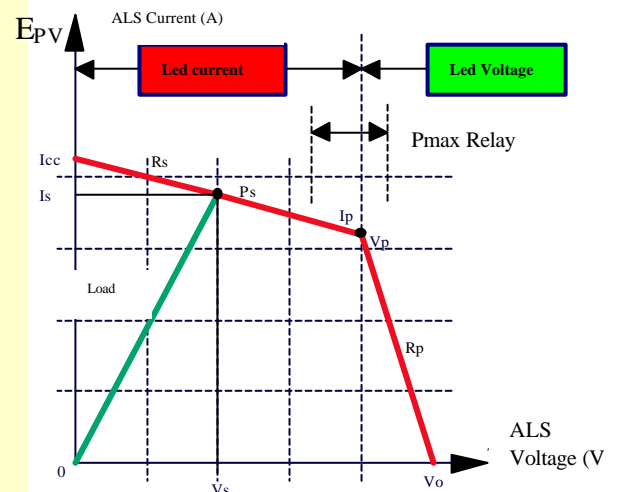
Connection in serial or in parallel



Backside panel



A day sunshine recording



ZI La Boitardière - 37400 AMBOISE - FRANCE

Tel: (+33) (0)2 47 23 67 67 Fax: (+33) (0)2 47 23 67 60

Email: ainelec@ainelec.com Site:www.ainelec.com