



# SOLAR PANEL MULTIMETER User manual



ELEJOY ELECTRONICS (TAIZHOU) CO., LTD.

## 1 PRODUCT FUNCTION

This solar panel multimeter can test the maximum power point、open-circuit voltage and short circuit.

★ PMA1800, PMA800 support Isc test.

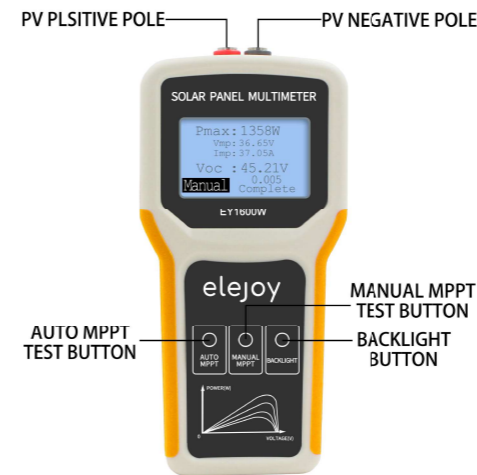
## 2 USE OBJECT

- Solar panel manufacturer
- Solar panel distributor
- Solar panel installer
- Solar panel user
- Solar panel fans

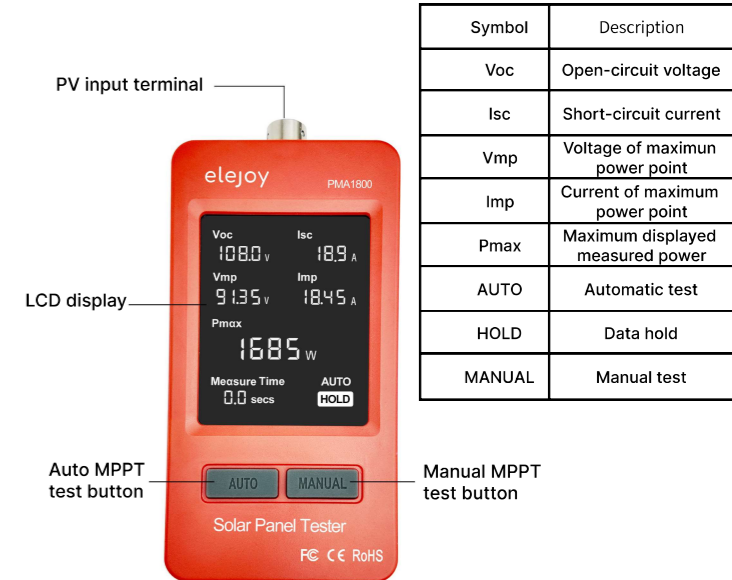
## 3 PRODUCT FEATURE

- AUTO MPPT detection
- Manual MPPT detection
- Over-voltage, over-temperature, over-current protection
- Solar panel reverse connection protection
- Over rated power protection
- No additional power supply required

## 4 SHAPE STRUCTURE



## 5 ACCESSORIES



Symbol	Description
Voc	Open-circuit voltage
Isc	Short-circuit current
Vmp	Voltage of maximum power point
Imp	Current of maximum power point
Pmax	Maximum displayed measured power
AUTO	Automatic test
HOLD	Data hold
MANUAL	Manual test

## 11 TECHNICAL DATA

Product name	Solar panel multimeter			
Model	EY1800W	EY1600W	EY800W	EL400B
Picture				
Power	5-1800W	5-1600W	5-800W	5-400W
Voltage	20-120V	12-60V		
Current	0-60A		0-35A	
Power supply mode	Solar panel power supply			
Packing				
Dimensions	165 × 80 × 30 mm			
Weight	470g			
Package QTY/carton	20 PCS			
Package weight	10KGS			
Carton size	520 × 320 × 210 mm			

Product name	Solar panel multimeter	
Model	PMA1800	PMA800
Picture		
Power	5-1800W	5-800W
Voltage	20-120V	
Current	0-60A	0-35A
Power supply mode	Solar panel power supply	
Packing		
Dimensions	148 × 75 × 21 mm	
Weight	420g	
Package QTY/carton	20 PCS	
Package weight	9KGS	
Carton size	520 × 320 × 210 mm	

## 6 AUTO MPPT DETECTION

When pressing the [AUTO MPPT] / [AUTO] test button, the multimeter automatically adjusts the test interval time according to the current power value and refreshes the digital display. Example: When the solar panel power is 100W, refresh once every 5S; when the solar panel power is 350W, refresh once every 15S. when the solar panel power is 700W, refresh once every 30S.

## 7 [HOLD] MODE

When the [AUTO] button is pressed a second time, [HOLD] will be displayed on the screen, and the solar panel tester will retain the current data and stop sampling. Pressing the [AUTO] button again will resume automatic sampling. ★ This feature is only available for the PMA1800/PMA800.

## 8 MANUAL MPPT DETECTION

When pressing the [MANUAL MPPT] / [MANUAL] test button, the multimeter starts a scan of the maximum power point and refreshes the digital display, and keep the last test results.

## 9 OPEN-CIRCUIT VOLTAGE DETECTION

When the multimeter is working, the LCD will display the open-circuit voltage and short circuit of the solar panel in real time .

★ PMA1800, PMA800 support Isc test.

## 10 ATTENTION

- Please be sure to use this product within the rated voltage & current power range.
- Please be sure to disconnect the solar panel from other equipment or loads before testing.

## 12 DETAIL PACKAGE

Model	EY1800W   EY800W   EY1600W	PMA800   PMA1800
Solar panel multimeter	1	1
MC4 connecting cable	1	1
Alligator clip cable	1	/
EVA toolkit	1	1
User manual	1	1

## 13 TROUBLESHOOTING

ERROR	CAUSE	EXPLANATION
No display	Reverse connection protection	Reverse connection protection
Display over power	Over rated power	Using within the rated power range of the multimeter
Display over temperature	Over-temperature protection	To be used after cooling
Display over voltage	Over-voltage protection	Using within the rated voltage range of the multimeter
Display over current	Over-current protection	Using within the rated current range of the multimeter

Note: if you cannot solve the problems, please contact us freely.

ELEJOY ELECTRONICS (TAIZHOU) CO., LTD.  
ADD. : No. 990-1, EASTERN DONGHAI AVENUE, JIAOJIANG DIST.,  
TAIZHOU ZHEJIANG CHINA  
<http://www.elejoy.com>