

Data Sheet

ISM 490A

Solar Module Analyzer (60V, 6A)

FEATURES

- I-V curve test for solar panel/module
- Max. solar panel power (Pmax) search by auto-scan: 60V, 6A (180W capability)
- Best resolution: 1mV, 0.1mA
- Manual single point I-V test
- Max. voltage (Vmaxp) at Pmax
- Max. current (Imaxp) at Pmax
- Voltage at open circuit (Vopen)
- Current at short circuit (Ishort)
- I-V curve with cursor to display each data point
- Efficiency (%) calculation of solar panel
- Solar panel area setting: 0.001 m² ~ 9999 m²
- Standard light source setting: 10 W/m² ~ 1000 W/m²
- Communicate with PC via USB cable
- Min. power setting for alarm function
- Built-in calendar clock
- Built-in battery charging circuit
- AC adaptor and rechargeable lithium battery
- Memory size: 100 records
- Large LCD with backlight

SPECIFICATION

	Range	Resolution	Accuracy
DC Voltage Measurement (60V / 6A)	0 ~ 6V	0.001 V	± 1 % ± (1 % of Vopen ± 9 mV)
	6 ~ 10V	0.001 V	± 1 % ± (1 % of Vopen ± 0.09 V)
	10 ~ 60V	0.01 V	± 1 % ± (1 % of Vopen ± 0.09 V)
DC Current Measurement (60V / 6A)	0.01 ~ 0.6A	0.1 mA	± 1 % ± (1 % of Ishort ± 0.9 mA)
	0.6 ~ 1A	0.1 mA	± 1 % ± (1 % of Ishort ± 9 mA)
	1 ~ 6A	1 mA	± 1 % ± (1 % of Ishort ± 9 mA)
DC Current Simulation (60V / 6A)	0.01 ~ 1A	0.1 mA	± 1 % ± 0.9 mA
	1 ~ 6A	1 mA	± 1 % ± 9 mA
Battery Type	Rechargeable Lithium Battery, 1600mAh		
Data Logging Memory Size	100 records		
AC Adaptor	AC 100 ~ 240V input, DC 15V / 1~3A output		
Dimensions	257(L) x 155(W) x 57(H) mm		
Weight	1160g / 40.0oz (Batteries included)		
Operating Temperature and Humidity	0°C ~ 50°C 85% RH		
Storage Temperature	-20°C ~ 60°C 75% RH		
Accessories	User Manual, AC adaptor, Optical USB cable, Rechargeable lithium battery, Software CD, Software Manual, Kelvin Clips (6A max), 4-Wire to 2-Wire Connector, Carrying bag x 1		

