

## Daystar DS-100C Characteristics

- \* Accurately measures single modules or PV arrays up to 50 kW.
- \* Low maintenance requirements – many Daystar units still operating after 15+ years in the field.
- \* Multi-range load capacitance for optimizing sweep speed to PV characteristics. Changing the voltage across a cell too quickly may give an inaccurate presentation of the IV curve.
- \* Safe, the Computer connection, pyranometers, and temperature inputs are electrically isolated from PV input. Non-metallic case.
- \* Can measure positive grounded, negative grounded, or floating PV sources.
- \* Two Current Ranges, 10 Amperes and 100 Amperes. Accuracy ~0.5%
- \* Auto-scale voltage ranges from 6 V to 600 V. Accuracy ~0.5%.
- \* Portable and rugged.
- \* Large capacity battery for more than 10 hours of continuous operation.
- \* 4-Wire Kelvin load PV connection to measure voltage.
- \* True short-circuit current measurement.
- \* Universal AC power 85/264 Vac, 50/60Hz for re-charging battery and/or running continuously from AC power. Secondary DC or PV module power/battery-charge input.
- \* USB and RS-232 interfaces.
- \* 2 voltage inputs for pyranometers; auto-scaling 4 decades to  $\pm 5$  Volts.
- \* 2 Thermocouple temperature inputs. Type T is standard.
- \* Supplied with transport case.

## Daystar DS-100C IVPC Software Capabilities

- \* IVPC 3 Software (Windows) is supplied with all Daystar IV curve tracers to operate the Tracer, process and store the data, display the IV curve(s) on the computer and provide extensive analysis and presentation capabilities
- \* Extensive Help Menu
- \* Auto-Curves to automatically take IV curves at defined intervals or ranges of irradiance and temperature.
- \* Quick-Curve feature to take IV curves quickly with a minimum of user input.
- \* External Command Set allows users to write programs to control operation of the Daystar IV Curve Tracer.
- \* IV Curve normalization (3 types). Can display original and normalized curve on same grid.
- \* Multi-plot capability to study multiple curves on one graph.
- \* Pyranometer-Manager allows quick and easy switching between connected pyranometers.
- \* Import and Export functions in IVA and XML formats.
- \* High contrast display mode for ease of use outdoors.
- \* Convenient method to recall default settings for different PV systems. Useful when taking repeated IV curves of different systems.