

Daystar DS-1000 Photovoltaic I-V Curve Tracer

Reliable, Safe, Accurate, Durable

- Up to 100 Amps, 1000 Volts, 100kW
- True short-circuit current measurement
- Slower IV curve for accuracy
- Portable, battery powered for > 10 hours of testing
- IVPC Provided for control, display, and analysis

For 30 years the Raydec IV Curve Tracers have set the standard for measuring performance of PV systems. Major photovoltaic companies and national laboratories use our Daystar IV Curve Tracers to evaluate PV modules and systems.



DS-1000 Specifications

PV VOLTAGE	Resolution	Accuracy-Typical at 25°C
1000V	30 mV	± 0.4 V ± 0.01% rdg
100 V	3 mV	± 40 mV ± 0.01% rdg
1 V	300 µV	± 4 mV ± 0.01% rdg
PV CURRENT		
100 A	3 mA	± 50 mA ± 0.05% rdg
10 A	300 µA	± 5 mA ± 0.05% rdg
1 A	30 µA	± 0.5 mA ± 0.07% rdg
TEMPERATURE		
Type T (x2)	0.1 °C	-30 °C to 120 °C ±1°C
AUX. INPUTS (x2)		
5 V	150 µV	± 500 µV ± 0.01% rdg
500 mV	15 µV	± 50 µV ± 0.01% rdg
50 mV	1.5 µV	± 5 µV ± 0.01% rdg
5 mV	0.15 µV	± 0.5 µV ± 0.03% rdg

Daystar DS-1000 IVPC Software

Control	Operates DS-1000 Tracer
OS	Microsoft Windows
Help	Extensive Help Menu
Auto Curve	Take Curves Automatically
Analysis	Display and Compare Curves
Normalization	Three methods included
Multi-Plot	Display Multiple Curves
Export	XML and IVA format
Command	External Command Set

Daystar DS-1000 Characteristics

Maximum PV Power	100 kW, 1000 V, 100 A
PV Grounding	Positive, Negative, Floating
True Isc Measurement	Yes
4-Wire Voltage	Yes
Irradiance Inputs (X2)	Yes
Temperature Inputs (X2)	Yes
Operation/Analysis Software	Yes
Data Connections	USB and RS-232
Tracer Electrically Isolated	Yes
AC Power for Charging	85-264 VAC, 50/60 Hz
DC Power for Charging	12-16 VDC
Internal Battery Operation	>10 Hours
Size in Case	46 x 36 x 20 cm 18" x 14" x 8"
Weight in Case	12 kg 25 lbs
Operating Temperature	0° - 50° C
Shipping Case Included	Yes, Shipping weight 25 kg

