

DAYSTAR'S 1000 VOLT, 100 AMP

Photovoltaic I-V Curve Tracer

Reliable, Safe, Accurate, Durable

The DS-1000...

- Up to 100 Amperes, 1000 Volts, 100kW
- 1000 data pairs in an IV curve
- Slower IV curve for accuracy
- Portable, battery powered for > 10 hours of testing
- True short-circuit current measurement
- User accessible calibration routine

For over 25 years Daystar Tracers have set the standard for measuring performance of PV systems. Major photovoltaic companies and national laboratories use Daystar Tracers to evaluate their product.



DS-1000 Specifications			Daystar DS-1000 Characteristics	
PV Voltage	Resolution	Accuracy-Typical at 25°C	Maximum PV Power	100 kW, 1000 V, 100 A
1000V	30 mV	± 0.4 V ± 0.01% rdg	PV Grounding	Positive, Negative, Floating
100 V	3 mV	± 40 mV ± 0.01% rdg	True Isc Measurement	Yes
1 V	300 µV	± 4 mV ± 0.01% rdg	4-Wire Voltage	Yes
			Irradiance Inputs (X2)	Yes
PV Current			Temperature Inputs (X2)	Yes
100 A	3 mA	± 50 mA ± 0.05% rdg	Operation/Analysis Software	Yes
10 A	300 µA	± 5 mA ± 0.05% rdg	Data Connections	USB and RS-232
1 A	30 µA	± 0.5 mA ± 0.07% rdg	Tracer Electrically Isolated	Yes
			AC Power for Charging	85-264 VAC, 50/60 Hz
Temperature			DC Power for Charging	12-16 VDC
Type T (X2)	0.1 °C	-30 °C to 120 °C ±1°C	Internal Battery Operation	>10 Hours
Voltage Inputs (X2)			Size in Case	46 x 36 x 20 cm 18" x 14" x 8"
5 V	150 µV	± 500 µV ± 0.01% rdg	Weight in Case	12 kg 25 lbs
500 mV	15 µV	± 50 µV ± 0.01% rdg	Operating Temperature	0° - 50° C
50 mV	1.5 µV	± 5 µV ± 0.01% rdg	Shipping Case Included	Yes, Shipping weight 25 kg
5 mV	0.15 µV	± 0.5 µV ± 0.03% rdg		
	Daystar DS-1000 IVPC Software			
Control	Operates DS-1000 Tracer			
OS	Windows Software			
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			

