

Solar Power Clamp

Power analysis tool for photovoltaic installations.



Technical Specification:

Accuracy is \pm (% reading + number of digits) AT $23^{\circ}\text{C} \pm 5^{\circ}\text{C} < 80\% \text{RH}$

Active Power

Function	Range	Accuracy
ACW / DCW	0.000kW - 599.9kW	A, error*V, reading + V, error *A, reading

Voltage

Function	Range	Accuracy
DCV	0.00A - 999.9V	\pm (0.7% + 2dgt)
ACV	0.00 - 999.9V	\pm (1.0% + 5dgt)
LPF (ACV)	0.00 - 999.9V	\pm (1% + 5dgt) @ 50Hz - 500Hz \pm (5% + 5dgt) @ >60Hz - 400Hz
Resolution (all)	0.01 V	

Current

Function	Range	Accuracy
DCA	0.00A - 99.99A 100.0A - 599.9A	\pm (1.5% + 0.2 A) \pm (1.5% + 5dgt)
ACA	0.10A - 599.9A	\pm (1.5% + 5dgt) 50Hz - 60 Hz \pm (2% + 5dgt) >60Hz - 500 Hz
LPF ACA	0.10A - 599.9A	\pm (1.5% + 5dgt) 50Hz - 60 Hz \pm (5% + 5dgt) >60Hz - 500 Hz

Peak Hold: Peak Max / Peak Min

Function	Range	Accuracy
ACV	140.0V 140.0V	\pm (3.0% + 15dgt)
ACA	140.0A 850A	\pm (3.0% + 15dgt)

Frequency

Function	Range	Accuracy
Frequency	20.00Hz - 9.999kHz	\pm (0.5% + 3dgt)

Total Harmonic Distortion

Function	Range	Accuracy
ACA /ACV	0.1 - 99.9%	\pm (3.0% + 10dgt)
Resolution	0.1%	

Harmonic Order

Function	Range	Accuracy
H01 ~ H12	0.1 - 99.9%	\pm (5% + 10dgt)
H13 ~ H25	0.1 - 99.9%	\pm (10% + 10dgt)
Resolution	0.1%	

Inrush Current

Function	Range	Accuracy
ACA	0.00A - 99.99A 100.0A - 599.9A	\pm (2.5 % + 0.2A) \pm (2.5 % + 5dgt)



KEEPING PEOPLE
SAFE
FOR OVER
35
YEARS

To find out more about the **Solar Power Clamp** go to
seaward-groupusa.com/solar-power-clamp



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Power Factor

Range	-1.00 - 1.00
Resolution	0.01
Basic Accuracy	$\pm 3^{\circ} \pm 1 \text{dgt}$

Resistance, Continuity & Diode

Function	Range	Accuracy
Resistance	0.0 Ω - 999.9 Ω	$\pm (1.0\% + 5\text{dgt})$
	1.000k Ω - 99.99k Ω	$\pm (1.0\% + 3\text{dgt})$
Continuity	0.0 Ω - 999.9 Ω	$\pm (1.0\% + 5\text{dgt})$
Diode	0.40 - 0.80V	$\pm 0.1\text{V}$

Capacitance

Function	Range	Accuracy
Capacitance	0.000 μF - 4000 μF	$\pm (1.9\% + 8\text{dgt})$
Resolution	0.001 μF max	

General Specification:

Instrument Dimensions and Weight

Weight	0.45kg / 1.0lb
Dimensions	8.7 x 23.9 x 5.1 cm / 3.43 x 9.41 x 2.0 inch
Power Source	Single 9V battery
Battery life	~ 100 hours (alkaline battery)

Services

2 year warranty (subject to terms and conditions, available at www.seaward-groupusa.com/warranty).

Safety

IEC 61010

Part Number: 396A961



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