

# Quick Reference Card

## Solmetric PVA-600 PV Analyzer



For use with v2 PVA PC software

- Current Range: 0 to 20 A dc
- Operating Temp: 0°C to +50°C
- Voltage Range: 0 to 600 V dc
- Storage Temp: -20°C to +60°C




**WARNING Risk of electrical shock.** To be used only by qualified personnel. Use Personal Protective Equipment. Isolate PV circuit to be tested from inverter and other PV circuits.

**Battery:** Runs 2 days with normal use. With heavy use, charge 6hrs nightly.

**Connector Saver Jumpers:** Replace jumpers after 100 connections.

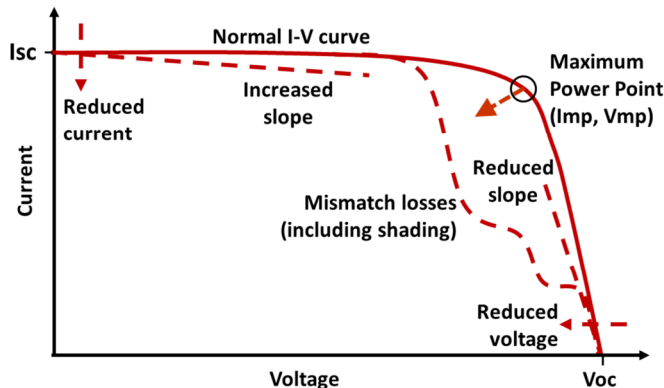
### I-V Measurement Head Control:

LED 	I-V Measurement Unit State	Pushbutton
Off	Off	Press to turn on
Blinking	Searching for network	
On	Network exists & sweep is enabled.	Press to turn off
Winks once	I-V sweep starting	

To reset IV-Unit, hold pushbutton down for at least 5 seconds

### Measurement Example (testing PV strings at a fused combiner box):

1. Insert wireless USB adaptor(s) and start PVA-600 software
2. Select a **Project** from the **File** menu, or create a new one
3. Deploy sensors (if being used) and turn on their transmitters
4. Open DC disconnect to isolate combiner box from rest of system
5. Lift all fuses to de-energize buss bars
6. Connect PVA-600 test leads to buss bars
7. Turn on I-V Measurement Head; wait for wireless links to set up
8. Insert the fuse for the string to be measured
9. Press **Measure Now** to take an I-V trace. When trace and tree appear, highlight the tested string and click **Assign and Save t**



### Troubleshooting PVA-600 Operation:

**Insufficient wireless range** Improve the line-of-sight between devices, raise them above ground or metal surfaces, or move them closer together.

**“Disabled”** Click the indicator for more information. Clear the underlying condition, (over-voltage, -current, -temp) and reset the I-V Measurement Head.

**Noisy trace (generally)** Low PV current – check for low-light condition.

**I-V Unit turns off** The I-V Unit turns off after 15 minutes of inactivity to conserve battery. Press the pushbutton to turn it back on.

**“No I-V Measurement Unit”** May result from electrical interference. Link will re-connect momentarily.

**Isc is too high or too low** Verify irradiance sensor is in plane of array.

**Software updates** Current PVA PC software is available online at [www.solmetric.com/support-downloads](http://www.solmetric.com/support-downloads)

### Solmetric Technical Support

Phone: 707-823-4600 X2

Toll Free: 877-263-5026

Email: [support@solmetric.com](mailto:support@solmetric.com)

Copyright 2010 Solmetric Corporation. All rights reserved.

August 2012 printing