



INSTALLER TOOLKIT FOR TROUBLESHOOTING OF SMA INVERTERS

The below table is a checklist of what installers should preferably have prior to their visits onsite to troubleshoot SMA inverters. Depending on the inverter model, site and other factors, some tools might not be needed. However it is recommended that all installers have each tool to enable them to work on any SMA inverter.

Tool	Available? Tick where applies
Allen keys	
Multimeter (1000V DC) for voltage and continuity measurements	
Insulation resistance tester (1000V)	
Clamp meter (able to measure DC and AC current)	
Laptop (preferably windows)	
Windows Laptop ¹	
TeamViewer ² downloadable from https://www.teamviewer.com/en/	
Sunny Explorer ³ Downloadable from http://www.sma-australia.com.au/products/monitoring-control/sunny-explorer.html	
A generic 100m Bluetooth dongle ⁴	
A shielded Ethernet cable / data cable (CAT5 or CAT6)	
Wi-Fi enabled device (eg. iPhone, Android phone, tablets or laptop).	
SMA Grid Guard code ⁵	
Advanced IP Scanner downloadable from: http://www.advanced-ip-scanner.com/	

- 1) The Windows laptop should have an Ethernet port and WIFI functionality.
- 2) Internet access will be required for remote access via TeamViewer. Internet access can be provided via customer’s network or via phone hotspot.
- 3) Sunny Explorer is not compatible with Mac laptops, and can be used for troubleshooting via Bluetooth or Speedwire.
- 4) This is only required if you are using Sunny Explorer to communicate via Bluetooth. If you have tested your laptop’s internal Bluetooth to work with Sunny Explorer in the past, then a Bluetooth dongle is not required
- 5) If required, a Grid Guard code is obtainable by filling out the following form, <http://files.sma.de/dl/22720/GRIDGUARD-en-32.pdf> and emailing Service@SMA-Australia.com.au