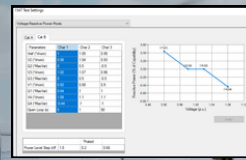


SmartTS-PV InverterTest System

One System. Complete Grid Code
Compliance Testing to
IEEE1547.1/ UL1741 SB.

Applications: PV Inverters, ESS, V2G



Smart energy testing starts here

The Smart-PV Inverter Test System combines industry-leading products into a single solution for grid code testing. Integrated AC grid simulator, DC source, power analyzer with built-in compliance software from QualityLogic delivers faster, easier IEEE 1547.1/UL1741 SB testing.



End to End Solution

Combined hardware and automation software simplifies test in one platform.

- ✓ Advanced HW performance
- ✓ Precision measurements
- ✓ Compliance SW



Accelerate Testing

Shortest path to test. Complete full testing in days instead of the typical 6–8 weeks.

- ✓ Emulate precise conditions
- ✓ Automated test sequences
- ✓ Instant Pass/ Fail results



Get to Market Faster

Streamline testing with a single solution saves TCO, resources, space, and time.

- ✓ Simplify testing
- ✓ Increase productivity
- ✓ Ensure global compliance

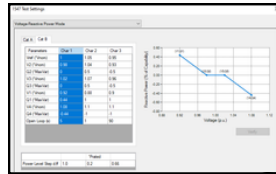
Streamline grid code compliance testing.
Reach out for a consultation or demo.



sales@pacificpower.com

SmartTS-PV Test System

Everything You Need in One Platform



Automation Software

Includes built-in monitor, and laptop with **QualityLogic's** software pre-installed for compliance testing to IEEE 1547.1, UL1741SB, EN50549, and regional grid codes.

19" Cabinet

Mobile-friendly with ventilated grid doors to ensure circulation.



PDU & Emergency Stop
Layered safety protections

Scope Recorder
Mounted internally

Power Analyzer
Precision Measurements

 **Best-in-Class Regen Grid Simulator**
Accurately simulate the grid

DC Power Supply
Programmable power to simulate DC

Inputs & Outputs
AC input on terminal block rear cabinet
AC & DC Outputs integrated internally

One Vendor. One System. One Support Team

From Your Trusted Partner

Get Certified Faster. Test Smarter.

We eliminate integration hassles and delays, giving you the fastest, lowest-risk path to compliance testing. Stay on schedule, on budget, and focused on results.

All-in-1 Platform for Automation, Analysis, Instant Pass/Fail Results

Get one platform with total control. Simulate the grid, automate compliance, and certify inverters, energy storage, and V2G faster with built-in scripts that simplify testing and ensure interoperability.

Designed by Industry Leaders in Test

We combine industry-leading products into a single solution for grid compliance testing needs with plug and play connectivity, layered protection, and worry-free operation.

Single Source for Quality Support from Pacific Power Source

Eliminate the complexity of having to go to multiple vendors for support. Get fast answers, and enjoy total peace of mind from experts you can trust.

Product System Specifications



Contact Sales for more information on custom systems: sales@pacificpower.com.

Regenerative AC Power Sources / Grid Simulators

SmartTS-PV System	AC Power Source	AC Voltage Range	AC Max Current (Arms/Ø) @ 120VI-n (RMS)	AC Max current (Arms/Ø) @ 277VI-n (RMS)
SmartTS-PV-15kW	3150RGS	0-350VI-n	42 Arms, 3 Phs mode	18 Arms, 3 Phs mode
SmartTS-PV-30kW	3300RGS or GSZ	0-350VI-n (RGS) / 0-480VI-n (GSZ)	84 Arms / 83.3 Arms	36 Arms / 36.1 Arms
SmartTS-PV-60kW	3630RGS or 3550GSZ	0-350VI-n (RGS) / 0-480VI-n (GSZ)	126 Arms / 130 Arms	75.8 Arms / 66 Arms
SmartTS-PV-Custom	Additional variants are available dependent on application requirements.			
PPS Products include: RGS, GSZ Series				

DC Power Supply to simulate the PV DC power

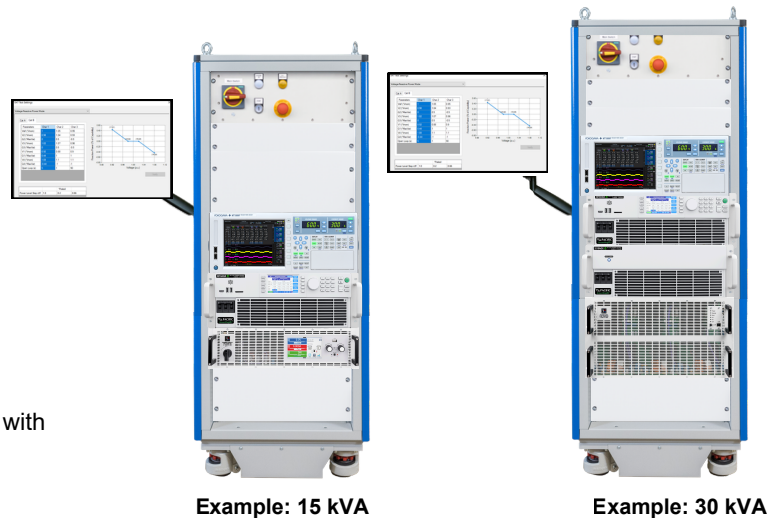
SmartTS-PV System	DC Power Rating	DC Voltage Range	Max. DC Current
SmartTS-PV-15kW	15kW	60V to 2000Vdc (model dependent)	510Adc
SmartTS-PV-30kW	30kW	60V to 2000Vdc (model dependent)	1000Adc
SmartTS-PV-60kW	60kW	60V to 2000Vdc (model dependent)	2000Adc
SmartTS-PV-Custom	Additional variants are available dependent on application requirements.		
<i>Standard systems include an unidirection DC power supply at the customer's required voltage range. Regenerative versions are available.</i>			

Power Analyzers & Scope

Consult with Sales for the appropriate power analyzer and scope for your application.

Power Analyzer Specs:

- Basic Accuracy: $\pm 0.1\%$ or $\pm 0.03\%$
- Bandwidth: 1 MHz
- Sampling Rate: 2 MS/s or 10 MS/s
- Resolution: 16-bit or 18-bit
- Channels (Elements): Up to 6 or to 7
- Voltage Range: Up to 1100 Vrms and 1500 VDC
- Current Range (Internal): Up to ~ 55 A (expandable with external current sensors)
- Harmonic Analysis: Up to 500th order



Quality Logic Automation Software

IEEE 1547.1 Tool

QualityLogic's 1547.1 test software automates compliance testing within SmartTS™, controlling equipment, executing test sequences, and capturing data via a standard SCPI interface—no custom scripting required. Built-in protocols and analysis can reduce certification time to ~ 32 hours of actual testing.

- Pre-installed for IEEE 1547.1, UL 1741 SB, EN 50549, & other regional grid codes
- Controls multiple units, automates measurements
- Accelerates testing & improves consistency
- Minimizes need for in-depth standards expertise

