

SE-DPS



Multi-site ATE Device Power Supply

Each SE-DPS offers many additional Power Supplies to enable real multi site testing

- **ADVANCED DPS**
Each DPS has a Force Voltage and Measure Current capability and can be used in parametric or go/nogo mode.
- **IDDQ measurement**
It has the capability of flexible measurement ranges to do accurate IDDQ current (<100uA) or functional current measurements (<2.4A)
- **Accuracy**
To guarantee the signal accuracy there are full Kelvin connections for force and grounding
- **Speed**
To offer maximum speed during programming and testing we implemented:
 - Hardware calibration factors
 - Fast hardware support Go/NoGo testing

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EFFICIENT TESTING WITH ENOUGH TESTER RESOURCES

Today cost efficiency is more important than ever. Many manufacturers are working on maximizing multi site testing. Often maximization can't be done efficient because of limited tester resources.

Salland Engineering introduces *Multi-site Device Power Supply* units (DPS) to extend existing ATE with up to 256+ independent DPS sources to enable real parallel testing. It offers FV, MI (including clamping control) possibilities, to be used for continuity, parametric IDD, IDDQ current measurements or just for powering devices.

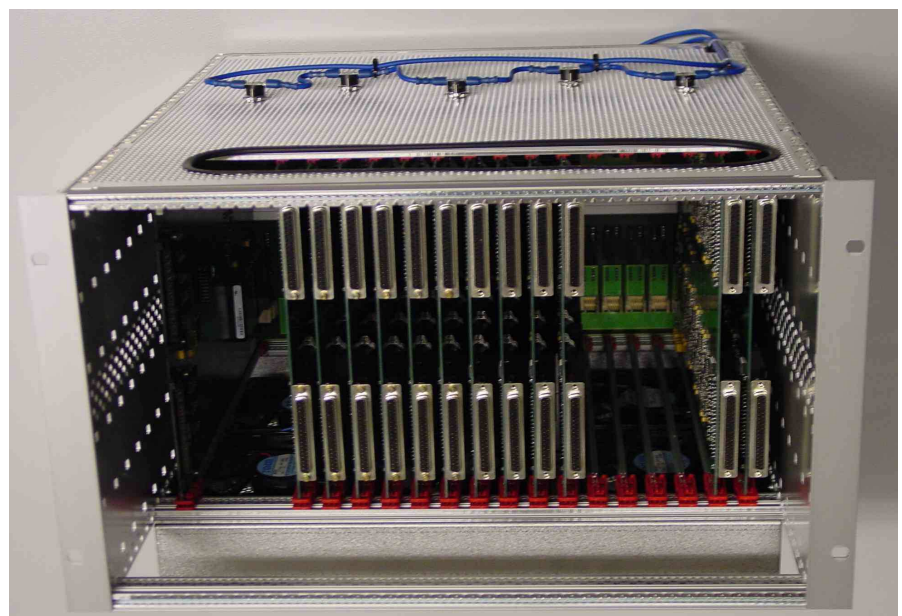
The SE-DPS instrument is targeted to reduce test costs for all kind of applications like for example; smart cards, memory, FPGA's or DFT driven test approaches. Because the general setup it can be used in any application where many resources are required or where the original ATE supplies doesn't meet the required specifications.

A SE-DPS is a fully integrated with the original ATE SW and can be delivered for all kind of tester brands. For example for Teradyne IGXL™ or Advantest ATL™ based systems.

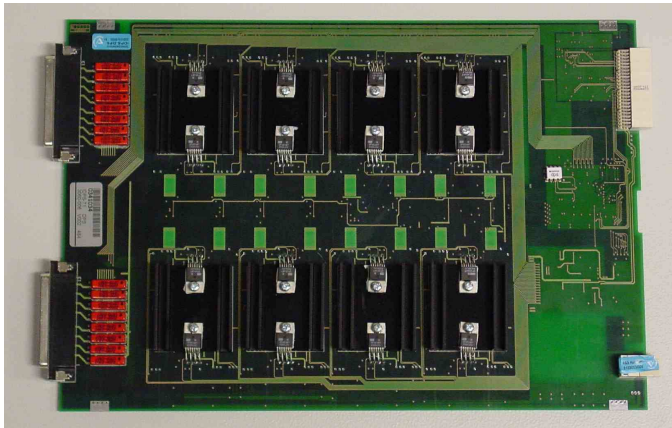
DPS system

The system consists of a 19-inch mainframe, with the system power supplies, control interface and DPS board modules.

The SE-DPS will be connected to the Device Interface Board (DIB) with special cables. A special control interface takes care of the control between the tester and the SE-DPS unit. This gives control capabilities for the current clamping, current measurement circuits, voltage references, calibration factors, limit value setting and relay switching. All settings can be controlled from the normal tester environment. The system comes with its own calibration and diagnostics SW to secure the functionality and accuracy.



Multi-site ATE Device Power Supply



DPS Module

A SE-DPS is scalable with 16 channel modules. Each channel on the board has its own current measurement circuit and range selection. Current clamping is programmable for the 16 channels together. Each board will also contain its own reference voltage for the 16 channels.

Customizable

Because of the modular concept and the available expertise and knowledge in Test engineering at Salland we can adapt the DPS system to virtual any customer specification without mayor investments. So ask us in case the specification doesn't cover exact your requirements.



DPS Drive capability (256 channels)	
Voltage Ranges	0V to +4V @ 600mA 0V to +8V @ 500mA
Voltage Ranges Ganged mode (2-4)	0V to +4V @ 2A4 0V to +8V @ 2A
Noise ripple	5mV peak-to-peak.

DPS measure capability (256 channels)	
Current Range (5)	100uA-600mA
Current Range (2) ganged mode	1.2A -2.4A

Salland Engineering: *Creating Solutions for the ATE industry:*

Salland Engineering is a world leader in Test Application Support, Data Analysis and ATE upgrade products and tools for the semiconductor market. The unique combination of Test Engineering knowledge with hands-on experience has resulted in a wide range of ATE and wafer prober products to optimize Test by speed & efficiency. Salland Engineering has an installed base of more than 2900 upgrade products and over 550 Turnkey Test Applications. For more information call us or visit: www.salland.com.