

IDPS™

Independent Device Power Supply



Superior Power Density

- Increase parallel testing
- Add up to 256 independent device power supplies to your testers
- Drive current up to 2.4A when ganged

Advanced DPS

- Each DPS has Force Voltage and Measure Current capability in parametric or Go/NoGo mode
- IDDQ measurement down to 100µA
- Full Kelvin connections insure signal accuracy

Reduce Cost of Test

- Low cost alternative for expanding your IG-XL-based testers
- Fast hardware supports Go/NoGo testing for maximum throughput

Ease of Use

- Integrated with IG-XL software
- Reduced programming and setup time via hardware calibration factors

Today, cost efficiency is more important than ever. Many manufacturers are working on maximizing multi-site testing. Often maximization cannot be done efficiently because of limited tester resources.

Salland Engineering's Independent Device Power Supply (IDPS) can expand your existing ATE with up to 256 independent DPS sources to enable real parallel testing. It offers Forced Voltage (FV) and Measure Current (MI) (including clamping control) that can be used for continuity tests, parametric IDD and IDDQ measurements or simply for powering devices under test.

The IDPS instrument is targeted to reduce test costs for a wide range of applications including smart cards, memory, microprocessors, FPGA's and DFT-driven test applications. Its design makes it useful in applications where many resources are required, or were the original ATE supplies do not meet your required specifications.

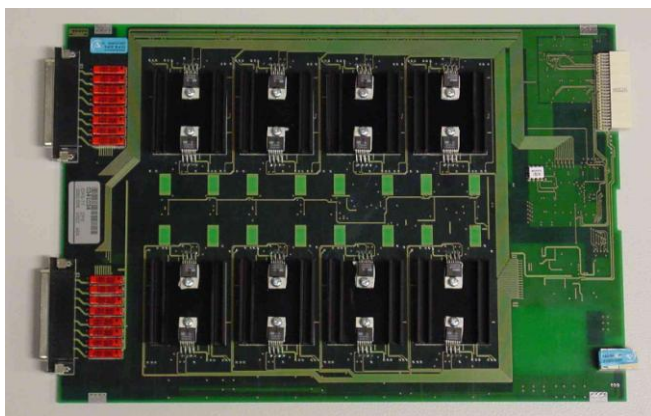
IDPS is fully integrated with the original ATE SW and can be delivered for all brands of tester. Teradyne IGXL™ is currently supported.

DPS System

The system consists of a 19-inch mainframe containing the system power supplies, control interface and DPS board modules. The IDPS will be connected to the device interface board (DIB) with special cables. A control interface takes care of the communications between the tester and the IDPS unit. This gives control capabilities for 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 software to ensure functionality and accuracy.

IDPS 16 Channel Module

IDPS 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 also contains its own reference voltage for the 16 channels.



DPS voltage drive capability (all channels)	
Number of sources	Up to 256 scalable by 16
Force Voltage Programmable per 16	0.1V to +4V @ 600mA 0.1V to +8V @ 500mA
Resolution	2 mV
Accuracy	± 5mV
Force Voltage Ganged mode (2-4)	0.1V to +4V @ 2.4A 0.1V to +8V @ 2A
Resolution	2 mV
Accuracy	± 10mV
Noise ripple	5mV peak-to-peak.
Current Clamping Accuracy	50 mA
Full Kelvin connection	Yes
Kelvin Alarm per supply	Separate for force & ground
DPS measure capability (all channels)	
Current Range (5)	100uA-600mA, ±1%
Current Range (2) ganged	1.2A -2.4A, ±1%
Temperature monitor	Yes

Customizable

Salland can adapt the IDPS system to virtually any customer specification without major investments because of the modular implementation. Interested parties are encouraged to contact us in case the specifications do not exactly meet your requirements.

Strong Track Record for Quality and Support

The IDPS builds upon Salland's history of providing high quality instruments. Salland is respected by demanding semiconductor manufacturers, OSATs, and ATE vendors for delivering outstanding instruments that are fully compatible with leading ATE platforms. The IDPS is supported by Salland Engineering on a worldwide basis.

About Salland Engineering

Salland Engineering International B.V. is a leading supplier of test solutions for the semiconductor industry. Our solutions are delivered via a unique combination of hardware, software, test applications services and in-depth expertise. We enable our customers to achieve lower cost of test, higher quality and reliability, improved test floor efficiencies, faster time to market and streamlined interfaces with their supply chain. Since 1992, Salland has delivered thousands of production proven results to leading integrated device manufacturers (IDMS), fabless semiconductor manufacturers, ATE vendors and outsourced test and assembly services (OSATs) around the world. We are consistently profitable and presently employ over 100 people. Salland is headquartered in The Netherlands with additional development centers in Texas. We have worldwide sales and support centers in Texas, California, Italy, UK, Singapore, Japan, Korea, and Taiwan. [Click here for Trademarks](#) of Salland Engineering. Visit www.salland.com