



IDPS750

256 channel 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 2.0A when ganged

Advanced DPS

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

Reduce Your Cost of Test

- ▶ Low cost alternative for expanding 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 IDPS750 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.

IDPS750 is fully integrated with the original ATE Software and can be delivered for all brands of testers. Teradyne IG-XL™ is currently supported.



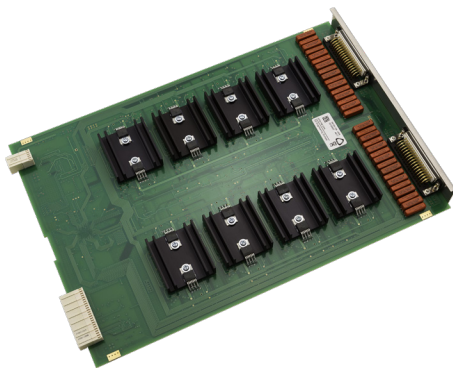
DPS System

The system consists of a 19-inch mainframe containing the system power supplies, control interface and DPS board modules. The IDPS750 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 IDPS750 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.

16 channel Module

IDPS750 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.



Customizable

Salland can adapt the IDPS750 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 IDPS750 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 IDPS750 is supported by Salland Engineering on a worldwide basis.

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 2mV

► Accuracy ± 5mV

Force Voltage (Ganged mode (2-4)) 0.1V to +4V @ 2A
0.1V to +8V @ 2A

► Resolution 2mV

► Accuracy ± 10mV

Noise ripple 5mV peak-to-peak.

Current Clamp Accuracy 50mA

Full Kelvin connection Yes

Kelvin Alarm per supply Separate for force & ground

DPS measure capability (all channels)

Current Range (5) 100µA - 600 mA, ± 1%

Current Range (2) 1A - 2A, ± 1%

Temperature Monitor Yes

Salland Engineering is an international leading Test Technology & Engineering company specialized in solutions & services that enable semiconductor manufacturers to achieve Lower cost of test, Higher quality and reliability, Improved test floor efficiencies, Faster time to market and Streamlined supply chain. Salland Engineering is in business since 1992, headquartered in Zwolle - The Netherlands, and operates worldwide.

- Supply Chain services from **prototyping, manufacturing** up to **repair service** for **advanced measurement** solutions **on site** in The Netherlands
- **ISO 9001:2015** certified