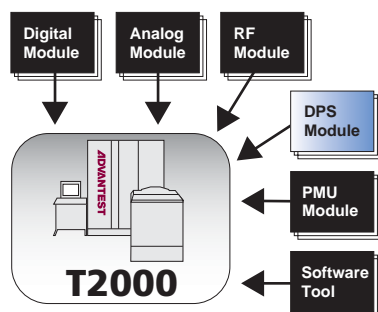


DPS Module



Device Power Supply Module

A Wide Range of Device Power Supplies
Designed to Handle High Current and High Density

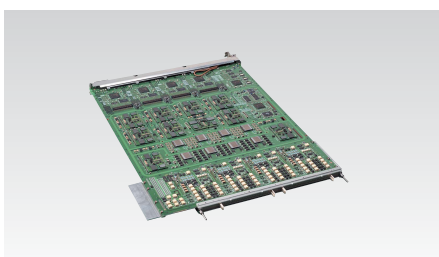
Device Power Supply 150A Module

- Suitable for High-Current and Low Voltage, High-end MPU Testing with the Load Regulation Necessary for High Accuracy Measurements
- Max. 1,280A at High-Current Function (Eighty Independent Supplies with 16A Capabilities) for Parallel Drive
- Max. 170A at Low-Current Function (Sixty-four Independent Supplies with 2.66A Capabilities) for Parallel Drive



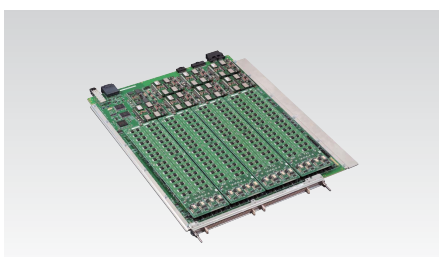
Low Current Device Power Supply Module

- Suitable for Multiple Power Supply, Low Voltage, and High-Current SoC Device Testing
- Eight Independent Supplies with 8V at 4A Capabilities
- Max. 64ch (256A) for Parallel Drive



Device Power Supply 500mA Module

- Suitable for Multiple Power Supply SoC Device Testing
- High Density Device Power Supply Module
- 32 Channels with 12V at 500mA Capabilities
- Max. 16A for Parallel Drive



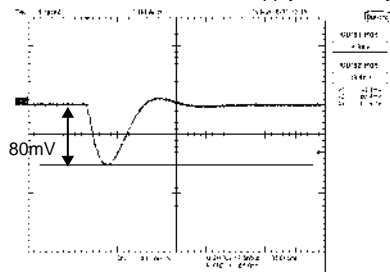
■ DPS150A (Device Power Supply 150A Module)

	HC_Function	LC_Function
Number of DPS Units:	[8 HC_Function + 8 LC_Function] per DPS150A module	
Voltage Source:	0V to 1.8V at 16A maximum output	0V to 2.0V at 2.66A maximum output
	0V to 3.0V at 12.5A maximum output	0V to 6.0V at 0.8A maximum output
	0V to 4.0V at 10A maximum output	
	0V to 14.0V at 2.25A maximum output	
Current Measurement:	Up to 64K pattern triggered measurement	
Measurement Ranges:	±50mA, 500mA, 16A	±5mA, 50mA, 500mA, 2.66A
Operating Modes:	VSVM (Voltage Source, Voltage Measure) VSIM (Voltage Source, Current Measure) ISVM (Current Source, Voltage Measure) ISHRVM [only LC_Function] (Current Source, High-Resolution Voltage Measure)	
Dynamic Load Regulation:	Output Voltage ≤4V 50mV at Δi = 50% of FS, CL=350μF within 25μS	High Capacitance mode 150mV at Δi = 50% of FS, CL = 2000μF within 700μS
	Output Voltage ≤14V 200mV at Δi = 50% of FS, CL = 100μF within 40μS	Low Capacitance mode 200mV at Δi = 50% of FS, CL = 200μF within 200μS
Parallel Ganging:	2 to 80 supplies (1280A maximum)	2 to 64 supplies (170A maximum)
Additional Features		
VBUMP:	Up to 64 Settings, Trigger from Pattern Generator	Up to 4 Settings, Trigger from Pattern Generator
Current Average:	1μs, 25μs and 100μs Sampling Rate, 64KMemory for Stored Readings	25μs and 100μs Sampling Rate, 64KMemory for Stored Readings
High Load Capacitance:	Output Voltage ≤4V Up to 10,000μF per supply	High Capacitance mode Up to 2,000μF per supply
	Output Voltage ≤14V Up to 2,000μF per supply	Low Capacitance mode Up to 200μF per supply
Cooling Method:	Liquid	

■ LCDPS (Low Current Device Power Supply Module)

Number of DPS Units:	8 per DPS Module
Voltage Source:	-2V to +6V at 4A maximum output
	-2V to +8V at 1A maximum output
Current Measurement:	Up to 64K pattern triggered measurements
Measurement Ranges:	±5μA, 50μA, 500μA, 5mA, 50mA, 500mA, 4A
Operating Modes:	VSVM (Voltage Source, Voltage Measure)
	VSIM (Voltage Source, Current Measure)
	ISVM (Current Source, Voltage Measure)
Dynamic Load Regulation:	60mV at Δi = 2A, CL = 2000μF (with high-capture mode)
	90mV at Δi = 2A, CL = 200μF (with high-speed mode)
Parallel Ganging:	2 to 64 supplies (256A maximum)
Additional Features	
VBUMP:	Up to 4 Settings, Trigger from Pattern Generator
Current Average:	25μs and 100μs Sample Rate
	64K Memory for Stored Readings
Cooling Method:	Liquid

Low Current Device Power Supply Module Dynamic Load Regulation



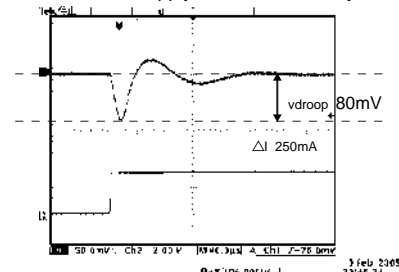
Decoupling Capacitance=200μF
Load Current step=2A/10nS (50%FS of Range / 10nS)

■ DPS 500mA (Device Power Supply 500mA Module)

Number of DPS Units:	32 per DPS Module
Voltage Source:	-2V to +12V at 200mA maximum output
	-2V to +8V at 500mA maximum output
Current Measurement:	Up to 64K pattern triggered measurements (with average mode)
Measurement Ranges:	±5μA, 50μA, 500μA, 5mA, 50mA, 500mA
Operating Modes:	VSVM (Voltage Source, Voltage Measure)
	VSIM (Voltage Source, Current Measure)
Dynamic Load Regulation:	90mV at Δi = 250mA, CL = 33μF
Parallel Ganging:	2 to 32 supplies (16A maximum)
Additional Features	
VBUMP:	Up to 4 Settings, Trigger from Pattern Generator
Current Average:	100μs Sample Rate
	256W Memory for Stored Readings
Cooling Method:	Air

The DPS 500mA is intended for use in highly parallel test applications as a DUT Power Supply or Reference Voltage Source.

Device Power Supply 500mA Module Dynamic Load Regulation



Decoupling Capacitance=33μF
Load Current step=250mA/10nS (50%FS of Range / 10nS)

- OPENSTAR is a registered trademark in the United States, Japan and other countries.
- Please refer to product manual for complete system specifications.
- Specifications may change without notification.

ADVANTEST

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