Programmable DC Power Supply of High Precision, High Responsibility, and High Resolution Power

OPS Series

Horizon Electronics Ltd
Power Systems

Description

The next generation OPS series can enable standard PD to do simple operating functions, detailed DC output and quick, high resolution response. Highly durable various protection circuits, this product can be utilized in several fields such as industry, research and development, and educational fields.

Store / Recall:

Take advantage of our powerful save capability.
Can store and recall up to voltage and current which OPS user sets. Even if not a professional engineer, easily utilize data that was stored and preset for production and product inspection and reliability testing using the recall function.

Stability:

Experience upgrade stability.
Equipped with a temperature compensating circuit and with protection mode embedded, the OPS series a real-time measurement compensation circuit, even if there is internal temperature change or any external effect to the test equipment, OPS series will maintain its setting. Thus, tesing can be done correctly and stable - even when testing for long periods of time.

Features

- Over-voltage/over-current protection
- Can save and recall active state (voltage-current) up to 10ea
- Can save and confirm error messages up to 10ea
- Self-exam test mode
- Can support cycling mode memory uo to 100ea (voltage-current slope and delay time)
- Outside software calibration support without need to inside
- calibration
- Providing factory function (memory initialization and calibration data back-up and restore)

Productivity

How does your company compare in productivity to other companies in the industrial field?
Our goods can be connected to more then 30 units per second to extract information in constructing FA system. By embedding a 24 bit ADC, only this product budget costs without the use of speciavices.

Specifications

Parameter Model	OPS 305
Output rating	0~30V, 0~5A
Resolution	
Programming/Readback	≤ 250μV / ≤ 50μA
Display Meter	1mV / 100μA
Programming Accuracy (@25°C±5°C) ± (%of output + offset)	
Voltage	0.05% + 10mV
Current	0.15% + 5mA
Read-back Accuracy (@25°C ±5°C) ± (%of output + offset)	
Voltage	0.05% + 5mV
Current	0.08% + 3mA
Ripple & Noise	≤ 2mVp-p, ≤ 2mArms
Load Regulation	2mV, 500μA
Line Regulation	500μV, 500μA
Command Processing Time	<32ms
Voltage Programming Speed (No load)	
Rising time	≤ 7.5V/ms
Falling time	≤ 3V/ms
Dimension (WxHxD/mm)	213x132x370
Transient Response time	Less than 50μV for output to recover to within 15V following change in output current from full load to half load or vice versa