



Datasheet

Programmable Switching D.C. Power Supply

Stock	No.:	Model :

2521599 **RSPS-150-10**





FEATURES

- Voltage Rating : 150V
- Output Power Rating : 1500W
- C.V/C.C Priority Mode; Particularly Suitable for the Battery and LED Industry
- Adjustable Slew Rate
- Series and Parallel Operation (2 Units in Series/4 Units in Parallel Maximum)
- High Efficiency and High Power Density
- 19" Rack Mount Size Design
- Standard Interface : LAN, RS-232 & RS485, USB (Device/Host), Analog Control Interface
- Optional Interface : GPIB/Isolated Analog Control Interface (Voltage Control /Current Control)





The RSPS-150-10 is a single output programmable switching DC Power Supply covering a power range up to 1500W. As the RSPS-150-10 can be connected in series for maximum 2 units or in parallel for maximum 4 units, the capability of connecting multiple RSPS-150-10 units for higher voltage or higher current output provides a broad coverage of applications.

The C.V/C.C priority selection of the RSPS-150-10 is a very useful feature for DUT protection. The conventional power supply normally operates under C.V mode when the power supply output is turned on. This could bring a high inrush current to the capacitive load or current-intensive load at the power output on stage. Though the current becomes stable after the C.C mode is activated, the current spike occurred at the C.V and C.C crossover point may possibly damage the DUT. At the power output on stage, the RSPS-150-10 is able to run under C.C priority to limit the current spike occurred at the threshold voltage and therefore protects DUT from the inrush current damage.

The OVP and OCP protections can prevent the DUT damage. Both OVP and OCP levels can be selected the range of 10% to 110%, with the default level set at 110%, of the rated voltage/current of the power supply. The RSPS-150-10 provides USB Host/Device, LAN, RS-232 with RS-485 and Analog Control interfaces as standard.

Series Operation

Model	Single Unit	Two Units	
RSPS-150-10	150V / 10A	300V / 25A	

Parallel Operation

Model	Single Unit	Two Units	Three Units	Four Units
RSPS-150-10	150V / 10A	150V / 20A	150V / 30A	150V / 40A





CDECIFICATIONS			
SPECIFICATIONS			
OUTPUT RATINGS			
Voltage	0~150V		
Current Power	0~10A		
	1500W		
OUTPUT RIPPLE AND NOISE			
CV p-p (10~20MHz)	100mV		
CV rms (5Hz~1MHz) CC rms (5Hz~1MHz)	10mV 35mA		
LOAD REGULATION			
-	17mV		
Voltage Current	7mA		
LINE REGULATION (change from 85 to 132 VAC input			
Voltage	17mV		
Current	3mA		
PROGRAMMING ACCURACY			
Voltage 0.05% + (mV)	75mV		
Current 0.2% + (mA)	10mA		
MEASUREMENT ACCURACY			
Voltage 0.1% + (mV)	150mV		
Current 0.2% + (mA)	20mA		
LOAD TRANSIENT RECOVERY TIME			
Time	2ms		
OUTPUT RESPONSE TIME			
Rise Time (No Load & Full Load)	150ms		
Fall Time (No Load)	2000ms		
Fall Time (Full Load)	150ms		
PROGRAMMING/MEASUREMENT RESOLUTION	DN		
Voltage	5.2mV		
Current	0.35mA		
TEMPERATURE COEFFICIENT (after a 30 minute v	varm-up)		
Voltage	100PPM/°C after 30 minutes warm up		
Current	100PPM/°C after 30 minutes warm up		
SERIES AND PARALLEL OPERATION			
Parallel Operation	Up to 4 units including master unit		
Series Operation	Up to 2 units including master unit		
ENVIRONMENTAL CONDITIONS			
Environment	Indoor use, installation cateorgy II (AC Input), pollution degree 2		
Operating Temperature Range	0°C~50°C		
Storage Temperature Range	-25°C~0°C		
Operating Humidity Range	20% to 85% RH		
Storage Humidity Range	Up to 90% or less relative humidity (no condensation)		
AC INPUT			
Norminal Input	100Vac ~ 240Vac, 50Hz ~ 60Hz, single phase		
Input Range	85VAc ~ 265Vac		
Power Factor (100Vac/200Vac)	0.99/0.98		
Maximum Input Current (100Vac/200Vac) Inrush Current	21A/11A ≦50A		
Efficiency(100Vac/200Vac)			
	84%/87%		
DIMENSIONS & WEIGHT			
Analog Control (Non-Isolated)	YES USB (Device/Host)/RS-232 with RS-485/LAN		
PC Remote Interface (Standard) PC Remote Interface (Optional)	GPIB/Analog Control Interface (Isolated Voltage Control)/Analog Control Interface (Isolated Current Control);		
i e hemote interface (optional)	Note : Selection one of three		
Cooling Fan	Forced air cooling by internal fan		
Dimensions & Weight	423 (W) x 43.6(H) x 447.2(D) mm; Approach 8.7kg		
-	Specifications subject to change without notic		
ORDERING INFORMATION			

RSPS-150-10 1500W Programmable Switching DC Power Supply

ACCESSORIES

Output terminal cover x 1, Analog connector plug kit x 1,Output terminal M8 bolt set, Input terminal cover x 1,

1U Handle(RoHS),1U Bracket(LEFT, RoHS), 1U Bracket(RIGHT,RoHS), Power Cord(10A) provided for certain regions only

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