

Wide-range Programmable DC power Supply

Preface


Dear customer, thank you for using this series Programmable Switching Power Supply, a product developed & manufactured by APM Technologies. We sincerely hope that this product will meet your needs.

Data Download

Please download the corresponding documents and monitoring software of all the models from APM website and keep it for your reference at any time.

Power Voltage	1U Units					2U Units			
	600W	1000W	1200W	1500W	1600W	1000W	2000W	3000W	4000W
20VDC	60A ⁽¹⁾	60A ⁽²⁾	60A ⁽²⁾	-	-	-	-	-	-
32VDC	50A ⁽¹⁾	50A ⁽²⁾	50A ⁽²⁾	-	50A ⁽²⁾	200A ⁽¹⁾	200A	200A	200A
40VDC	40A ⁽¹⁾	40A ⁽²⁾	40A ⁽²⁾	-	40A ⁽²⁾	120A ⁽¹⁾	120A	120A	120A
75VDC	25A ⁽¹⁾	25A ⁽²⁾	25A ⁽²⁾	25A ⁽²⁾	-	-	-	-	60A
80VDC	-	-	-	-	-	60A ⁽¹⁾	60A	60A	-
120VDC	-	-	-	-	-	40A ⁽¹⁾	40A	40A	40A
150VDC	10A ⁽¹⁾	10A ⁽²⁾	10A ⁽²⁾	10A ⁽²⁾	-	30A ⁽¹⁾	30A	30A	30A
200VDC	8A ⁽¹⁾	8A ⁽²⁾	8A ⁽²⁾	8A ⁽²⁾	-	24A ⁽¹⁾	24A	24A	24A
600VDC	-	-	-	-	-	10A ⁽¹⁾⁽²⁾	10A ⁽²⁾	10A ⁽²⁾	10A ⁽²⁾
800VDC	-	-	-	-	-	7.5A ⁽¹⁾⁽²⁾	7.5A ⁽²⁾	7.5A ⁽²⁾	7.5A ⁽²⁾

Model guide

SP  Power Voltage
For example: SP200VDC1500W
SP stands for Switching Power

⁽¹⁾ Model guide

SPS  Power Voltage

⁽²⁾ For these models, the DVM and Analog input function is optional.

Unpacking

Once you receive the product, please immediately check if there is any packaging damage that may indicate damage to the product. If you find damage related to product delivery, please immediately notify the transport company. Make sure to take photos documenting the damage to the product, and send them to us so that we can provide you with the best service.

Make sure that you receive the DC power supply and the following accessories at the same time, if any is missing, please contact your agent or APM Technologies.

Packing List for 1U Units

No.	Descriptions	Quantity	Remarks
1	Programmable DC Power Supply	1	As Ordered
2	Rack Mount Brackets	2	Standard
3	Screws	6	Standard
4	Power Cord (suitable for whole voltage range)	1	Standard
5	Power Cord with Plug	1	As Ordered
6	RS-232 Communication Cable	1	Standard
7	LAN Communication Cable (568A-568B)	1	Standard
8	LAN Communication Cable (568A-568A)	1	Standard
9	USB Communication Cable	1	Standard
10	Current Sharing Cable	1	Standard
11	System Bus Communication Cable	1	Standard
12	Front/Rear Feet and Screws	1	Standard
13	Quick Guide	1	Standard

Packing List for 2U Units

No.	Descriptions	Quantity	Remarks
1	Programmable DC Power Supply	1	As Ordered
2	Rack Mount Brackets	2	Standard
3	Input Terminal Cover Box	1	Standard
4	Screws	8	Standard
5	Power Cord (suitable for whole voltage range)	1	Standard
6	RS-232 Communication Cable	1	Standard
7	LAN Communication Cable (568A-568B)	1	Standard
8	LAN Communication Cable (568A-568A)	1	Standard
9	USB Communication Cable	1	Standard
10	GPiB Communication Cable	1	Standard
11	Current Sharing Cable	1	Standard
12	System Bus Communication Cable	1	Standard
13	Quick Guide	1	Standard

Important Notes

Operating Environments

- These power supplies must be used in a clean and dry laboratory or testing environment with an ambient temperature of between 0°C and 40°C and a relative humidity of between 10% and 90%.
- Do not prolong the use of this power supply in a high temperature ambient.
- Fans cool the power supply by drawing air through the front and exhausting it out the back. Please assure that 20cm space is present at the front and back of the unit for adequate air circulation.
- Do not operate this product in an environment that contains large amounts of dust, is subject to strong shock and vibration, is in intense direct sunlight or contains corrosive gases.

Product Storage

Please store this product in an area with a temperature between -20°C and 70°C and with a relative humidity of between 0% and 90% non-condensing. If the product is not in use for a long time, please keep it in the original carton or other similar packaging and store it in a cool & dry place.

Maintenance and Cleaning

Before cleaning, you must disconnect the input power cord of this power supply. Using a brush or sponge, gently wipe off any dust from the units exterior. To clean the products exterior use only a small amount of non-aqueous cleaning solution such as isopropyl alcohol on a clean cloth. Do not use a corrosive or abrasive cleaning solution to clean this product. The display front panel can be cleaned with gauze dampened in soft detergent. Cleaning of dust from the interior of this product must be carried out with a low pressure air gun, and we prefer that such a clean work be performed by an authorized dealer on behalf of the user.

Power Supply Voltage

Make sure that the AC input voltage is within the product's operating specification before plugging in or connecting to the source, and that the power switch is in the OFF state.



Caution!

- The protective safety earth/ground connection must connect first and disconnect after the AC line and neutral wires. All approved AC power connectors are designed to meet this requirement. If the input wires are directly connected to an AC mains circuit assure that the AC source is deactivated prior to making or disconnecting the connection.

Fuse

The AC mains fuses installed inside the product are designed to protect the input from major failures, and should not fail under normal operating conditions. Therefore, any sign of fuse failure is an indication that other part(s) of the product is damaged. If fuse melting happens, we recommend that the product be sent back to us for repair.



Warning!

- No user serviceable components enclosed. Do not disassemble the power's enclosure/case to replace the fuse, as there is a danger of sustaining an electric shock.

Operation Precautions

- When the unit is first turned on the DC output is in a deactivated state. It can be activated by pressing the output turn on push button on the front panel or by remote control command.
- Before turning on the DC power output, check that all the setting values of the power supply are in accordance with the load requirements.
- It is recommended to select the input/output cables' size according to IEC 61010.

Warranty Period

- The warranty period of APM Programmable DC Power Supply is 2 (two) years, or refer to relevant Distributor Agreement terms.
- The warranty period will not be extended or recalculated after a product or component replacement, repaired or replaced products are covered for the remainder of the original warranty period and subject to the conditions outlined in the original warranty.