



Quick Guide

High Power Programmable DC Power System

18950-675-00(PD)

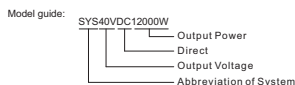
Preface

Dear customers, thank you for using this DC Source System, a product developed & manufactured by APM Technologies. We sincerely hope that this product will meet your needs.

Data Download

Please kindly download the detailed user manual from APM website and keep it for your reference at any time.

| No. | Output Voltage | 6U | 12U | 20U | No. | Output Voltage | 6U | 12U | 20U |
|-----|----------------|------|-------|-------|-----|----------------|-------|------|------|
| | | 12KW | 24KW | 40KW | | | 12KW | 24KW | 40KW |
| 1 | 32VDC | 600A | 1200A | 2000A | 11 | 320VDC | - | - | 200A |
| 2 | 40VDC | 360A | 720A | 1200A | 12 | 360VDC | 40A | - | - |
| 3 | 75VDC | 180A | 360A | 600A | 13 | 400VDC | - | - | 120A |
| 4 | 96VDC | 200A | - | - | 14 | 450VDC | 30A | 60A | - |
| 5 | 120VDC | 120A | 240A | 400A | 15 | 600VDC | 30A | 60A | 100A |
| 6 | 150VDC | 90A | 180A | 300A | 16 | 720VDC | - | 40A | - |
| 7 | 192VDC | - | 200A | - | 17 | 750VDC | - | - | 60A |
| 8 | 200VDC | 72A | 144A | 240A | 18 | 800VDC | 22.5A | 45A | 75A |
| 9 | 225VDC | 60A | - | - | 19 | 900VDC | - | 30A | - |
| 10 | 240VDC | - | 120A | - | 20 | 1200VDC | - | 24A | 40A |



The differences between DC Source System and single unit are as below:

| No. | Descriptions | Single unit | Series/Parallel System |
|-----|----------------------|-------------|------------------------|
| 1 | Output Current range | 100%*Iout | 100%*Iout |
| 2 | Output Power range | 100%*Pout | 100%*Pout |
| 3 | Short Circuit mode | Support | Support |
| 4 | Battery Test mode | Support | Support |
| 5 | External Control | Support | Not Support |

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 AC power source and the following accessories at the same time, if any is missing, please contact your agent or APM Technologies.

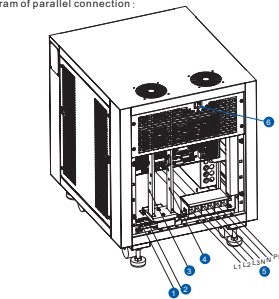
Packing List for the Units

| No. | Descriptions | Quantity | Remarks |
|-----|-------------------------------------|----------|------------|
| 1 | DC Source System | 1 | As Ordered |
| 2 | RS-232 Communication Cable | 1 | Standard |
| 3 | LAN Communication Cable (568A-568B) | 1 | Standard |
| 4 | USB Communication Cable | 1 | Standard |
| 5 | GPIB Communication Cable | 1 | Optional |
| 6 | Quick Guide | 1 | Standard |

Failure Repair

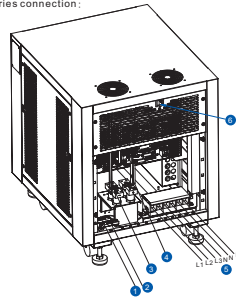
If the power source fails, please contact APM Technologies or its dealer quickly to provide the serial number of the faulty power source, detailed faulty information and pictures in order to identify the cause of the failure. If the power source required to repair, please use the original packing material. Shipment should not be made without prior authorization by APM.

Diagram of parallel connection:



- 1 Voltage sensor(-)
- 2 Voltage sensor(+)
- 3 Output(-)
- 4 Output(+)
- 5 Input terminals
- 6 Communication cable hole

Diagram of series connection:



- 1 Voltage sensor(-)
- 2 Voltage sensor(+)
- 3 Output(-)
- 4 Output(+)
- 5 Input terminals
- 6 Communication cable hole

Important Notes

Operating Environments

- These power sources 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 5% and 95%.
- Do not prolong the use of this power source in a high temperature ambient.
- Fans cool the power source by drawing air through the front and exhausting it out the back. Please assure that 30cm 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 -40°C and 85°C and with a relative humidity of between 5% and 95% 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.

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 DC line and neutral wires.

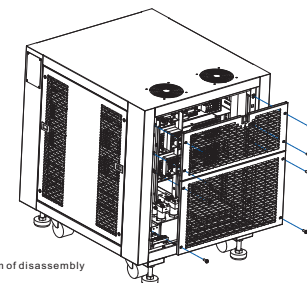


Diagram of disassembly

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, as there is a danger of sustaining an electric shock.

Operation Precautions

- When the unit is first turned on, the DC Source System output and the input Circuit Breaker are 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, or refer to the following suggestion.
- Press 'EMERGENCY STOP' button on the front panel to cut off the electricity for any emergency.

| Model | General input cable diameter/number | Single machine input cable diameter/number | Input circuit breaker | Wiring method |
|-------|-------------------------------------|--|-----------------------|---------------|
| 6U | 16mm ² /4 AWG | 4mm ² /10 AWG | 63A/4P | 3Ø 5W, Y Type |
| 12U | 25mm ² /2 AWG | 4mm ² /10 AWG | 125A/4P | 3Ø 5W, Y Type |
| 20U | 25mm ² /2 AWG | 4mm ² /10 AWG | 125A/4P | 3Ø 5W, Y Type |

Warranty Period

- The warranty period of APM DC Source System is 2 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.

APM Technologies

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