

## Product Selection Guide

High Efficiency & High Precision & High Stability



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## Company Profile

APM Technologies Ltd is a high-tech enterprise specialized in the research & development (R&D), production and distribution of programmable power supply, Electronic Load, automated testing system, automated manufacturing equipment, marine smart system (MSS) and PV solar inverter. Our company has complete systems in product planning, research & development, laboratory experiment, testing, and quality control. In addition, we have passed the ISO 9001 standard certifications(2018-2021).

APM Technologies' R&D team consists of more than 100 personnel encompassing Ph.D. and master degree holders as well as senior experts in the related industries. By collaborating with a number of domestic and international research teams and maintaining a long term strategic cooperation with leading colleges and universities, our company can ensure products and services are leading the industry. Through applying our professional techniques and technologies to continually innovate and break through, so far APM Technologies has applied for a number of invention patents and already obtained a number of utility patents, design patents, software copyrights and other related patents. Our products have passed the CE, VDE, SAA, CQC, CSA, FCC, ROHS, etc. certifications.

APM Technologies from the beginning to the present, and from the past to the future, has always uphold the company spirit of "Constant Pursuit of Excellence" so as to provide our customers with the "24 Hours a Day of Continuing Services".



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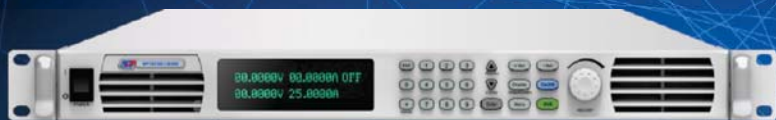
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## SP-1U/2U Series High Performance Programmable DC Power Supply



(1U) 600W~1600W



(2U) 1000W~4000W

### Product Introduction

APM provides stable DC output and wider range voltage and current. For single unit, current range could reach to 200A. Voltage range could reach to 800V. One unit programmable power supplier could substitute several rectangular power. It could output multiple voltage and current group, timer control function, provide OVP、OCP、OPP、OTP、SCP via front panel or PC. It supports list file function with built-in automotive electronics test waveform. Standard interfaces include RS232、RS485、USB、LAN. GPIB is optional. It could apply in various fields.

### Features

- Low ripple and noise.
- High accuracy and high resolution.
- CC and CV working mode switch freely.
- Support LIST/SEQUENCE file editing.
- OVP/OCP/OPP/OTP/SCP.
- Remote compensation.
- With external analog control input interface.
- Standard USB/LAN/RS485/RS232 communication interface.
- Master/Slave parallel and series operation mode for up to 10 units.

## Quick Selection

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

## Product Configuration

| Product Code <sup>*1</sup>        | Configuration Content                                               |
|-----------------------------------|---------------------------------------------------------------------|
| Basic configuration <sup>*2</sup> |                                                                     |
| 001                               | USB & RS232 & RS485 & LAN (Standard)                                |
| 002                               | USB & RS232 & RS485 & LAN + GPIB                                    |
| 003                               | USB & RS232 & RS485 & LAN + Voltage Meter & External Control        |
| 004                               | USB & RS232 & RS485 & LAN + GPIB + Voltage Meter & External Control |
| 005                               | GPIB (applicable in 1U)                                             |
| 006                               | GPIB (applicable in 2U)                                             |
| Options <sup>*3</sup>             |                                                                     |
| L001                              | Three-pin plug power cable (10A)                                    |
| L002                              | Three-pin plug power cable (16A)                                    |
| L003                              | Power Cable (1.5 M)                                                 |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select basic configuration before order, 005~006 support the model which has shipped.

\*3 Only 600W model is standard with three-pin plug power cable (16A). The rest models are equipped with power cable (1.5 M).  
If need extra optional cable, please check if it could meet the requirement of safety standard.

## SP-3U/6U Series Wide-range High-power Programmable DC Power Supply



(3U) 6000W~18000W



(6U) 24000W~36000W

### Product Introduction

This series Wide-range High-power Programmable DC Power Supply adopts high frequency isolation and active PFC design, which makes it can achieve high efficiency at any output point. DSP and FPGA control circuit provides faster but stable internal data computing and response capability. An optional built-in electronic load enables the power supply to work as a two-quadrant power supply. Solar array simulation function provides a unique feature to simulate the output characteristics of a solar panel. Users can select built-in standard automotive power network voltage curves to do the DUT performance test directly according to the demand. Built-in smart 3-stage charging algorithm simulation which is suitable for commonly known types of batteries on the market. List and Step modes can be used for auto sequence output. Built-in RS232, RS485 and USB communication interfaces, LAN&GPIB or CAN communication card is optional.

### Features

- Large color touch screen with intuitive interface provides an excellent intuition operational experience.
- 3-phase input voltage meets worldwide power distribution regulation, AC mains 187~253Vac/340~460Vac for optional.
- Constant voltage (CV), constant current (CC) and constant power (CP) operation mode, CC or CV working priority setting.
- Adjustable voltage/current slew rate.
- DDS arbitrary function generator.\*
- Solar panel I-V curve simulation function.\*
- Smart 3-stage charging algorithm simulation.\*
- Battery simulator function.\*
- Continuous source & sink function, with APM DC E-load to expand loading capability (optional).
- List/ Step mode programming.
- TTL/Analog control and monitoring.
- Built-in standard automotive power network voltage curves.\*
- Full protection: OVP, OCP, OPP and OTP protection.
- Supports master-slave mode, paralleling up to 16 units.
- Supports SCPI commands, provides web GUI function.

\*Only professional version units support these functions.

### Supported Functions Professional Version Only

| No. | Description                                               | Application                                                                                                                                                  |
|-----|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | DDS arbitrary function generator                          | Includes a true function generator, built-in typical functions, supports complex waveforms creation, used for testing purposes in development and production |
| 2   | Solar panel I-V curve simulation function                 | Users can set the parameters to simulate I-V curve characteristic output                                                                                     |
| 3   | Smart 3-stage charging algorithm simulation               | Commonly used charging curve simulation                                                                                                                      |
| 4   | Battery simulator function                                | Truly simulate the changes of internal resistance of battery in charging and discharging test.                                                               |
| 5   | Built-in standard automotive power network voltage curves | Users can recall the built-in standard curve to do the DUT performance test directly.                                                                        |

## Quick Selection

| Output Voltage | 3U    |        |        | 6U     |        |        |
|----------------|-------|--------|--------|--------|--------|--------|
|                | 6000W | 12000W | 18000W | 24000W | 30000W | 36000W |
| 80VDC          | 200A  | 400A   | 600A   | 800A   | 1000A  | 1200A  |
| 165VDC         | *     | 180A   | *      | 360A   | *      | 540A   |
| 250VDC         | *     | *      | 180A   | *      | *      | *      |
| 360VDC         | 42.5A | 85A    | 127.5A | 170A   | 212.5A | 255A   |
| 500VDC         | 32A   | 64A    | 96A    | 128A   | 160A   | 192A   |
| 750VDC         | 21A   | 42A    | 63A    | 84A    | 105A   | 126A   |
| 1000VDC        | *     | 32A    | *      | 64A    | *      | 96A    |
| 1500VDC        | *     | 21A    | 32A    | 42A    | *      | 63A    |
| 2250VDC        | *     | *      | 21A    | *      | *      | *      |

## Product Configuration

| Product Code *1        | Configuration Content                                                              |
|------------------------|------------------------------------------------------------------------------------|
| Product Version *2     |                                                                                    |
| A                      | Advanced                                                                           |
| P                      | Professional                                                                       |
| Basic configuration *2 |                                                                                    |
| 001                    | 3P-400Vac input, include USB & RS232 & RS485(Standard)                             |
| 002                    | 3P-400Vac input, include USB & RS232 & RS485 + CAN                                 |
| 003                    | 3P-400Vac input, include USB & RS232 & RS485 + LAN & GPIB                          |
| 004                    | 3P-400Vac input, include USB & RS232 & RS485 + External Control                    |
| 005                    | 3P-400Vac input, include USB & RS232 & RS485 + CAN + LAN & GPIB                    |
| 006                    | 3P-400Vac input, include USB & RS232 & RS485 + CAN + External Control              |
| 007                    | 3P-400Vac input, include USB & RS232 & RS485 + LAN & GPIB + External Control       |
| 008                    | 3P-400Vac input, include USB & RS232 & RS485 + CAN + LAN & GPIB + External Control |
| 009                    | 3P-208Vac input, include USB & RS232 & RS485(Standard)                             |
| 010                    | 3P-208Vac input, include USB & RS232 & RS485 + CAN                                 |
| 011                    | 3P-208Vac input, include USB & RS232 & RS485 + LAN & GPIB                          |
| 012                    | 3P-208Vac input, include USB & RS232 & RS485 + External Control                    |
| 013                    | 3P-208Vac input, include USB & RS232 & RS485 + CAN+ LAN & GPIB                     |
| 014                    | 3P-208Vac input, include USB & RS232 & RS485 + CAN + External Control              |
| 015                    | 3P-208Vac input, include USB & RS232 & RS485 + LAN & GPIB + External Control       |
| 016                    | 3P-208Vac input, include USB & RS232 & RS485 + CAN+ LAN & GPIB + External Control  |
| 017                    | Advanced version upgrade to professional version                                   |
| 018                    | CAN                                                                                |
| 019                    | LAN & GPIB                                                                         |
| 020                    | External Control                                                                   |
| Options *3             |                                                                                    |
| 021                    | Option Sink for dual quadrant function                                             |
| L001                   | Power Cable (4M)                                                                   |
| L002                   | Power Cable (10M)                                                                  |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 017~020 support the model which has shipped.

\*3 This series of power cable is optional, 021 need to select before shipment.

## SPS Series DC Power Supply System



13U



19U



27U

### Product Introduction

Built-in voltage and current measurement function could provide wider range voltage and current combination. Single unit could cover range from 12KW to 40KW. Power range could reach to 2000A and voltage range could reach to 1200V. DC source system can fulfill different kinds of DC power applications. Users can set the output voltage, current arbitrarily. Measure all kinds of features and display on VFD. At the meanwhile, power source provide multi standard interface, simplify and accelerate test development.

### Features

- With accurate voltage and current measurement capability.
- Coded knobs, multifunctional keyboard.
- Standard RS232/LAN/RS485/USB interface, GPIB is optional.
- Remote sensing to compensate for voltage drop in load leads.
- Support CV and CC automatically switch.
- Function of editing List waveform.
- Use SCPI commands.
- CE certified.
- OVP/OCP/OPP/OTP/SCP.

## Quick Selection

| Output Voltage | 13U Cabinet |            | 19U Cabinet |            |            | 27U Cabinet |            |            |             |
|----------------|-------------|------------|-------------|------------|------------|-------------|------------|------------|-------------|
|                | 2 Parallel  | 3 Parallel | 4 Parallel  | 5 Parallel | 6 Parallel | 7 Parallel  | 8 Parallel | 9 Parallel | 10 Parallel |
|                | 8KW         | 12KW       | 16KW        | 20KW       | 24KW       | 28KW        | 32KW       | 36KW       | 40KW        |
| 32VDC          | 400A        | 600A       | 800A        | 1000A      | 1200A      | 1400A       | 1600A      | 1800A      | 2000A       |
| 40VDC          | 240A        | 360A       | 480A        | 600A       | 720A       | 840A        | 960A       | 1080A      | 1200A       |
| 75VDC          | 120A        | 180A       | 240A        | 300A       | 360A       | 420A        | 480A       | 540A       | 600A        |
| 120VDC         | 80A         | 120A       | 160A        | 200A       | 240A       | 280A        | 320A       | 360A       | 400A        |
| 150VDC         | 60A         | 90A        | 120A        | 150A       | 180A       | 210A        | 240A       | 270A       | 300A        |
| 200VDC         | 48A         | 72A        | 96A         | 120A       | 144A       | 168A        | 192A       | 216A       | 240A        |
| 600VDC         | 20A         | 30A        | 40A         | 50A        | 60A        | 70A         | 80A        | 90A        | 100A        |
| 800VDC         | 15A         | 22.5A      | 30A         | 37.5A      | 45A        | 52.5A       | 60A        | 67.5A      | 75A         |
| Output Voltage | 6KW         | 9KW        | 12KW        | 15KW       | 18KW       | 21KW        | 24KW       | 27KW       | 30KW        |
| 80VDC          | 120A        | 180A       | 240A        | 300A       | 360A       | 420A        | 480A       | 540A       | 600A        |
| Output Current | 13U Cabinet |            | 19U Cabinet |            |            | 27U Cabinet |            |            |             |
|                | 2 Series    | 3 Series   | 4 Series    | 5 Series   | 6 Series   | 7 Series    | 8 Series   | 9 Series   | 10 Series   |
|                | 8KW         | 12KW       | 16KW        | 20KW       | 24KW       | 28KW        | 32KW       | 36KW       | 40KW        |
| 200A           | 64V         | 96V        | 128V        | 160V       | 192V       | 224V        | 256V       | 288V       | 320V        |
| 120A           | 80V         | 120V       | 160V        | 200V       | 240V       | 280V        | 320V       | 360V       | 400V        |
| 60A            | 150V        | 225V       | 300V        | 375V       | 450V       | 525V        | 600V       | 675V       | 750V        |
| 40A            | 240V        | 360V       | 480V        | 600V       | 720V       | 840V        | 960V       | 1080V      | 1200V       |
| 30A            | 300V        | 450V       | 600V        | 750V       | 900V       | 1050V       | 1200V      | *          | *           |
| 24A            | 400V        | 600V       | 800V        | 1000V      | 1200V      | *           | *          | *          | *           |
| 10A            | 1200V       | *          | *           | *          | *          | *           | *          | *          | *           |
| Output Current | 6KW         | 9KW        | 12KW        | 15KW       | 18KW       | 21KW        | 24KW       | 27KW       | 30KW        |
| 60A            | 80V         | 240V       | 320V        | 400V       | 480V       | 560V        | 640V       | 720V       | 800V        |

\* This formula is the standard cabinet for SP-2U model; it is available to select cabinet with different specification according to exact situation.

## Product Configuration

| Product Code <sup>*1</sup>        | Configuration Content                                               |
|-----------------------------------|---------------------------------------------------------------------|
| Basic configuration <sup>*2</sup> |                                                                     |
| 001                               | USB & RS232 & RS485 & LAN (Standard)                                |
| 002                               | USB & RS232 & RS485 & LAN + GPIB                                    |
| 003                               | USB & RS232 & RS485 & LAN + Voltage Meter & External Control        |
| 004                               | USB & RS232 & RS485 & LAN + GPIB + Voltage Meter & External Control |
| 005                               | GPIB (applicable in 1U)                                             |
| 006                               | GPIB (applicable in 2U)                                             |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

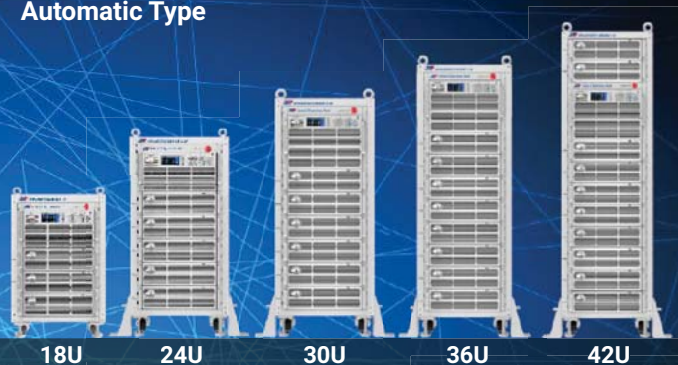
\*2 Select basic configuration before order, 005~006 support the model which has shipped.

# SPS-M/A Series DC Power Supply System

Manual Type



Automatic Type



## Product Introduction

The SPS-M/A Series DC Power Supply System supports two series cabinets based on the control mode : SPSM and SPSA. The maximum output voltage and current of a single cabinet is up to 2250V and 3000A respectively. Output power of a single cabinet is up to 180kW. Support master-slave configuration to increase the output capacity to 576kW.

SPSM series cabinets use world famous circuit breaker to control the input of each power module inside. After power on, the specified 3U or 6U height power supply will be configured as a Master to control all of the slave units.

CSP is the Master in SPSA series cabinets, which is equipped with a PDU (Power Distribution Unit) and a CSP (Control & Supervisory Panel). The PDU consolidate microprocessor and management of hundreds of thousand VA AC mains in a 5U/8U height chassis. The CSP will display the input and output parameters of this system. The touchpanel provides a complete, intuitive user interface for users to easily manage all configuration, setup and update. Full protection designs prevent potential injury.

## Quick Selection

| Output Voltage | 18U Cabinet |            | 24U Cabinet |            | 30U Cabinet | 36U Cabinet |            | 42U Cabinet |             |
|----------------|-------------|------------|-------------|------------|-------------|-------------|------------|-------------|-------------|
|                | 2 Parallel  | 3 Parallel | 4 Parallel  | 5 Parallel | 6 Parallel  | 7 Parallel  | 8 Parallel | 9 Parallel  | 10 Parallel |
| 80VDC          | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 1200A       | 1800A      | 2400A       | 3000A      | 3000A       | 3000A       | 3000A      | 3000A       | 3000A       |
| 165VDC         | 24KW        | 36KW       | 48KW        | 60KW       | 72KW        | 84KW        | 96KW       | 108KW       | 120KW       |
|                | 360A        | 540A       | 720A        | 900A       | 1080A       | 1260A       | 1440A      | 1620A       | 1800A       |
| 250VDC         | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 360A        | 540A       | 720A        | 900A       | 1080A       | 1260A       | 1440A      | 1620A       | 1800A       |
| 360VDC         | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 255A        | 382.5A     | 510A        | 637.5A     | 765A        | 892.5A      | 1020A      | 1147.5A     | 1275A       |
| 500VDC         | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 192A        | 288A       | 384A        | 480A       | 576A        | 672A        | 768A       | 864A        | 960A        |
| 750VDC         | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 126A        | 189A       | 252A        | 315A       | 378A        | 441A        | 504A       | 567A        | 630A        |
| 1000VDC        | 24KW        | 36KW       | 48KW        | 60KW       | 72KW        | 84KW        | 96KW       | 108KW       | 120KW       |
|                | 64A         | 96A        | 128A        | 160A       | 192A        | 224A        | 256A       | 288A        | 320A        |
| 1500VDC        | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 64A         | 96A        | 128A        | 160A       | 192A        | 224A        | 256A       | 288A        | 320A        |
| 2250VDC        | 36KW        | 54KW       | 72KW        | 90KW       | 108KW       | 126KW       | 144KW      | 162KW       | 180KW       |
|                | 42A         | 63A        | 84A         | 105A       | 126A        | 147A        | 168A       | 189A        | 210A        |

\* Above cabinets are formed with 3U height DC power supplies. Different height cabinets can be connected in parallel to a 576kW system. Please contact APM sales representative for details.

## Features

- Large color touch screen, rotary knob and keys provide an excellent operational experience.
- 3-phase input voltage meets worldwide power distribution regulation, AC mains 187~253Vac/340~460Vac for optional.
- Constant voltage (CV), constant current (CC) and constant power (CP) operation mode, CC or CV working priority setting.
- Adjustable voltage/current slew rate.
- Smart 3-stage charging algorithm simulation.
- Full protection: OVP, OCP, OPP and OTP protection.
- Equipped with Emergency Stop, physically off all managed DC power supplies at once.
- Back door with protect switch, safe to the operator.
- List/ Step mode programming.
- Standard RS232/RS485/USB interface, optional LAN & GPIB interface, optional CAN interface.
- SCPI compatible, provide web GUI function.

## SPSA Series Advantage

- CSP5/CSP8\*, connect with 5units /10 units 3U height DC power supply or 2units /5 units 6U height DC power supply.
- Built-in power meter, to monitor the AC mains parameters such as V, A, Frequency, Power and PF.
- Support efficiency calculation and electrical quantities recording.
- Built-in Timer, allows to set output running time.
- Easy to enable the output of each power supply from the touch screen, sequence On/Off DC power supplies.
- Display the output parameters of each DC power supply in the same system.
- PDU significantly simplifies the wiring for DC power system.
- Use-defined AC input protection parameters such as OVP, UVP, OFP, UFP, OCP and Phase loss.
- Provide web GUI function to monitor & control the CSP via Ethernet.

\* Even the same model CSP may be configured differently, which is based on the connected DC power supplies.

## System Configuration

| SPSM Series Cabinets        |     |     |     |     |      |
|-----------------------------|-----|-----|-----|-----|------|
| Cabinet Height              | 18U | 24U | 30U | 36U | 42U  |
| Capacity for Power Supplies | 9U  | 15U | 18U | 24U | 30U  |
| Capacity (3U height unit)   | 3   | 4~5 | 4~6 | 7~8 | 9~10 |
| Capacity (6U height unit)   | 1   | 2   | 3   | 4   | 5    |
| PDU Height                  | 4U  | 4U  | 7U  | 7U  | 7U   |
| EMS Panel Height            | 1U  | 1U  | 1U  | 1U  | 1U   |
| Cabinet Frame               | 2U  | 2U  | 2U  | 2U  | 2U   |
| Wiring Height               | 2U  | 2U  | 2U  | 2U  | 2U   |

| SPSA Series Cabinets        |     |     |     |     |      |
|-----------------------------|-----|-----|-----|-----|------|
| Cabinet Height              | 18U | 24U | 30U | 36U | 42U  |
| Capacity for Power Supplies | 9U  | 15U | 18U | 24U | 30U  |
| Capacity (3U height unit)   | 3   | 4~5 | 4~6 | 7~8 | 9~10 |
| Capacity (6U height unit)   | 1   | 2   | 3   | 4   | 5    |
| CSP Height                  | 5U  | 5U  | 8U  | 8U  | 8U   |
| Cabinet Frame               | 2U  | 2U  | 2U  | 2U  | 2U   |
| Wiring Height               | 2U  | 2U  | 2U  | 2U  | 2U   |

\* PDU or CSP will be equipped based on the connected DC power supplies.

## Product Configuration

| Product Code <sup>*1</sup>               | Configuration Content                                                              |
|------------------------------------------|------------------------------------------------------------------------------------|
| <b>Product Version <sup>*2</sup></b>     |                                                                                    |
| A                                        | Advanced                                                                           |
| P                                        | Professional                                                                       |
| <b>Basic configuration <sup>*2</sup></b> |                                                                                    |
| 001                                      | 3P-400Vac input, include USB & RS232 & RS485(Standard)                             |
| 002                                      | 3P-400Vac input, include USB & RS232 & RS485 + CAN                                 |
| 003                                      | 3P-400Vac input, include USB & RS232 & RS485 + LAN & GPIB                          |
| 004                                      | 3P-400Vac input, include USB & RS232 & RS485 + External Control                    |
| 005                                      | 3P-400Vac input, include USB & RS232 & RS485 + CAN + LAN & GPIB                    |
| 006                                      | 3P-400Vac input, include USB & RS232 & RS485 + CAN + External Control              |
| 007                                      | 3P-400Vac input, include USB & RS232 & RS485 + LAN & GPIB + External Control       |
| 008                                      | 3P-400Vac input, include USB & RS232 & RS485 + CAN + LAN & GPIB + External Control |
| 009                                      | 3P-208Vac input, include USB & RS232 & RS485(Standard)                             |
| 010                                      | 3P-208Vac input, include USB & RS232 & RS485 + CAN                                 |
| 011                                      | 3P-208Vac input, include USB & RS232 & RS485 + LAN & GPIB                          |
| 012                                      | 3P-208Vac input, include USB & RS232 & RS485 + External Control                    |
| 013                                      | 3P-208Vac input, include USB & RS232 & RS485 + CAN+ LAN & GPIB                     |
| 014                                      | 3P-208Vac input, include USB & RS232 & RS485 + CAN + External Control              |
| 015                                      | 3P-208Vac input, include USB & RS232 & RS485 + LAN & GPIB + External Control       |
| 016                                      | 3P-208Vac input, include USB & RS232 & RS485 + CAN+ LAN & GPIB + External Control  |
| 017                                      | Advanced version upgrade to professional version                                   |
| 018                                      | CAN                                                                                |
| 019                                      | LAN & GPIB                                                                         |
| 020                                      | External Control                                                                   |
| <b>Panel Configuration <sup>*3</sup></b> |                                                                                    |
| S001                                     | Only master unit display, slave unit hidden                                        |
| S002                                     | Both master and slave unit display                                                 |
| <b>Options <sup>*3</sup></b>             |                                                                                    |
| 021                                      | Option Sink for dual quadrant function                                             |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 017~020 support the model which has shipped.

\*3 Panel Configuration & options need to confirm before shipment.

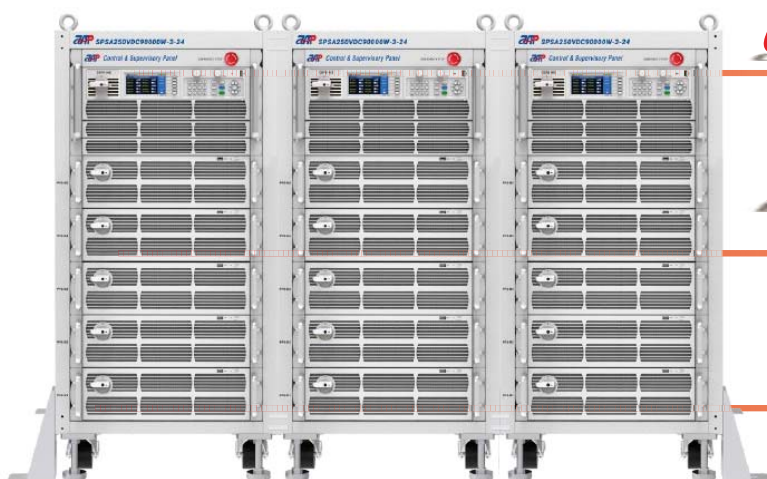
## Connecting the cabinet

### 1. The cabinets can be connected in parallel in order to increase output power.

- Maximum 16 units 3U height same model DC power supplies or 6U height same model DC power supplies can be connected via the bus.
- 16 units each with a power of 18kW are connected together to a 288kW system.
- 16 units each with a power of 36kW are connected together to a 576kW system.

### 2. Different height cabinets can be connected in parallel.

- Use parallel bars to simplify the connection between multiple rack cabinets.
- Realized the gapless connection between multiple rack cabinets.



**GAPLESS** connection

**FLEXIBLE ASSEMBLY**  
and disassembly

Up to **576kW**

## SP-300 Series Single-phase Programmable AC Power Supply



### Product Introduction

It is a switching mode single-channel output high-precision programmable AC power source, which adopts high speed DSP+CPLD control, high frequency PWM power technology and active PFC design to realize AC/DC stable output. It is featured with high power density, high reliability and high precision, meanwhile it possesses operation interface of touch screen and keys manually. It is able to analog output normal or abnormal input for electrical device to meet test requirements. Meet the verification of power electronics, motors, lighting, automotive electronics research and development quality assurance laboratory, as well as the production test verification of factory production line.

### Features

- Large color touch screen with intuitive interface, easy to operate.
- Features AC, DC, AC+DC output modes, AC+DC output mode for voltage DC offset simulation.
- Turn on, turn off phase angle control, 0-359.9°.
- Output frequency: 15-1200Hz, programmable slew rate setting for changing voltage and frequency.
- High output current crest factor which is ideal for inrush current testing.
- Built-in power meter function, can real-time measure 15 electrical parameters such as RMS voltage, current, power, apparent power and etc. This series AC source can measure up to 40 orders of the voltage or current harmonics. Support LIST/PULSE/STEP modes to simulate all kinds of power line disturbance conditions.
- Triac Dimmer function for dimming/governor simulation function.
- Sweep function for efficiency testing and shows voltage and frequency value at max power.
- Multiple current range to make current measurement more accurate.
- Front panel USB interface supports CSV format to import waveform.
- OCP/OVP/OPP/OTP/reverse current protection/short circuit protection.
- Programmable voltage and current limit, support CC mode.
- Support up to 2 units in series, 4 units in parallel.
- Support three phase power output, can simulate three phase unbalanced output.
- Support external analog input control and TTL electrical level output.
- Two versions to meet the cost performance and different applications.

### Difference Between Advanced Version and Professional Version

| Function description                                                   | Advanced Version | Professional Version                                                          |
|------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------|
| Output frequency range                                                 | 15~1000Hz        | 15~1200Hz                                                                     |
| Built-in IEC standards                                                 | IEC 61000-4-11   | IEC 61000-4-11; IEC 61000-4-13; IEC 61000-4-14; IEC 61000-4-28                |
| Programmable output impedance                                          | Not supported    | Support, meet IEC 61000-3-2/ IEC 61000-3-3 output impedance test requirements |
| Harmonic/inter-harmonic generation simulation and measurement function | Not supported    | Support, the harmonic components can be up to 40 orders                       |

### Quick Selection

| Output Voltage | 2U        |           |            | 3U     | 4U          |         |         |
|----------------|-----------|-----------|------------|--------|-------------|---------|---------|
|                | 600W      | 1000W     | 1500W      | 2000W  | 3000W       | 4000W   | 5000W   |
| 150VAC/300VAC  | 5.6A/2.8A | 9.2A/4.6A | 13.8A/6.9A | 16A/8A | 27.6A/13.8A | 32A/16A | 46A/23A |

## Product Configuration

### Appllicable to 2U unit

| Product Code <sup>*1</sup>               | Configuration Content                                                 |
|------------------------------------------|-----------------------------------------------------------------------|
| <b>Product Version <sup>*2</sup></b>     |                                                                       |
| A                                        | Advanced                                                              |
| P                                        | Professional                                                          |
| <b>Basic configuration <sup>*2</sup></b> |                                                                       |
| 001                                      | USB & RS232 & RS485 (Standard)                                        |
| 002                                      | USB & RS232 & RS485 + LAN & GPIB                                      |
| 003                                      | USB & RS232 & RS485 + External Control                                |
| 004                                      | USB & RS232 & RS485 + Multiphase Card                                 |
| 005                                      | USB & RS232 & RS485 + LAN & GPIB + External Control                   |
| 006                                      | USB & RS232 & RS485 + LAN & GPIB + Multiphase Card                    |
| 007                                      | USB & RS232 & RS485 + External Control + Multiphase Card              |
| 008                                      | USB & RS232 & RS485 + LAN & GPIB + External Control + Multiphase Card |
| 009                                      | Advanced version upgrade to professional version                      |
| 010                                      | LAN & GPIB                                                            |
| 011                                      | External Control                                                      |
| 012                                      | Multiphase Card                                                       |
| <b>Options <sup>*3</sup></b>             |                                                                       |
| L001                                     | Three-pin plug power cable (10A)                                      |
| L002                                     | Three-pin plug power cable (16A)                                      |
| L003                                     | Power Cable (1.5M)                                                    |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 009~012 support the model which has shipped.

\*3 2U model is standard with three-pin plug power cable (16A). If need extra optional cable, please check if it could meet the requirement of safety standard.

### Appllicable to 3U/4U unit

| Product Code <sup>*1</sup>               | Configuration Content                                                 |
|------------------------------------------|-----------------------------------------------------------------------|
| <b>Product Version <sup>*2</sup></b>     |                                                                       |
| A                                        | Advanced                                                              |
| P                                        | Professional                                                          |
| <b>Basic configuration <sup>*2</sup></b> |                                                                       |
| 001                                      | USB & RS232 & RS485 & LAN (Standard)                                  |
| 002                                      | USB & RS232 & RS485 & LAN + GPIB                                      |
| 003                                      | USB & RS232 & RS485 & LAN + External Control & Multiphase Card        |
| 004                                      | USB & RS232 & RS485 & LAN + GPIB + External Control & Multiphase Card |
| 005                                      | Advanced version upgrade to professional version                      |
| 006                                      | GPIB                                                                  |
| 007                                      | External Control & Multiphase Card                                    |
| <b>Options <sup>*3</sup></b>             |                                                                       |
| L001                                     | Three-pin plug power cable (10A)                                      |
| L002                                     | Three-pin plug power cable (16A)                                      |
| L003                                     | Power Cable (1.5M)                                                    |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 005~007 support the model which has shipped.

\*3 3U/4U is standard with power cable(1.5 M). If need extra optional cable, please check if it could meet the requirement of safety standard.

## SPS-300 Series AC Power Supply System



(9U) 1200W~4500W



(17U) 6000W~15000W



(21U) 12000W~20000W

### Product Introduction

This series AC Power Supply System adopts high speed DSP+CPLD control, high frequency PWM power technology and active PFC design to realize AC/DC stable output, high power up to 20kW.

The user friendly interface allows for quick access to AC source's function through a large graphic LCD display front panel with touch screen or keypad. Can simulate complex AC lines conditions and measure critical product characteristics during testing.

### Features

- Large touch color screen, possess complete functions and easy to operate.
- AC+DC mixed or independent output mode for voltage DC offset simulation.
- Capable of setting output slope/phase angle, 0~359.9°.
- Output frequency 15~1000Hz, capable of setting output slope of voltage and frequency.
- High output crest factor could satisfy surge tests requirements.
- Multiple current measuring level selection. Increase measurement accuracy.
- Standard USB data interface, support CSV file waveform import.
- OCP/OVP/OPP/OTP/ Short circuit protection.
- Built-in power meter, which is capable of measuring 15 electrical parameters per phase, including voltage, current, power, etc.
- With reverse current protection to avoid current flowing backward.
- Capable of setting voltage and current output restriction, support for constant current output mode.

## Quick Selection

| Output Voltage | Output Mode |               |               |               | 2 Parallel  |               |              |              |
|----------------|-------------|---------------|---------------|---------------|-------------|---------------|--------------|--------------|
|                |             | 9U Cabinet    |               |               | 17U Cabinet |               |              |              |
|                |             | 1200W         | 2000W         | 3000W         | 4000W       | 6000W         | 8000W        | 10000W       |
| 150VAC/300VAC  | 1 Phase     | 10.08A/5.04A  | 15.56A/8.28A  | 24.84A/12.42A | 28.8A/14.4A | 49.68A/24.84A | 57.6A/28.8A  | 82.8A/41.4A  |
| Output Voltage | Output Mode |               |               |               | 3 Parallel  |               |              |              |
|                |             | 9U Cabinet    |               |               | 17U Cabinet |               |              |              |
|                |             | 1800W         | 3000W         | 4500W         | 6000W       | 9000W         | 12000W       | 15000W       |
| 150VAC/300VAC  | 1 Phase     | 15.12A/7.56A  | 24.84A/12.42A | 37.26A/18.63A | 43.2A/21.6A | 74.52A/37.26A | 86.4A/43.2A  | 124.2A/62.1A |
| Output Voltage | Output Mode |               |               |               | 4 Parallel  |               |              |              |
|                |             | 17U Cabinet   |               |               | 21U Cabinet |               |              |              |
|                |             | 2400W         | 4000W         | 6000W         | 8000W       | 12000W        | 16000W       | 20000W       |
| 150VAC/300VAC  | 1 Phase     | 20.16A/10.08A | 33.12A/15.56A | 49.68A/24.84A | 57.6A/28.8A | 99.36A/49.68A | 115.2A/57.6A | 165.6A/82.8A |
| Output Voltage | Output Mode |               |               |               | 2 Series    |               |              |              |
|                |             | 9U Cabinet    |               |               | 17U Cabinet |               |              |              |
|                |             | 1200W         | 2000W         | 3000W         | 4000W       | 6000W         | 8000W        | 10000W       |
| 300VAC/600VAC  | 1 Phase     | 5.04A/2.52A   | 8.28A/4.14A   | 12.42A/6.21A  | 14.4A/7.2A  | 24.84A/12.42A | 28.8A/14.4A  | 41.4A/20.7A  |

\* This formula is the standard cabinet for SP-300 series 2U/3U/4U model. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

## Product Configuration

| Product Code *1                                                                                       | Configuration Content                                                 |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Product Version *2</b>                                                                             |                                                                       |
| A                                                                                                     | Advanced                                                              |
| P                                                                                                     | Professional                                                          |
| <b>Basic configuration *2 (Applicable to power range in blue area from above Quick Selection)</b>     |                                                                       |
| 001                                                                                                   | USB & RS232 & RS485 (Standard)                                        |
| 002                                                                                                   | USB & RS232 & RS485 + LAN & GPIB                                      |
| 003                                                                                                   | USB & RS232 & RS485 + External Control                                |
| 004                                                                                                   | USB & RS232 & RS485 + Multiphase Card                                 |
| 005                                                                                                   | USB & RS232 & RS485 + LAN & GPIB + External Control                   |
| 006                                                                                                   | USB & RS232 & RS485 + LAN & GPIB + Multiphase Card                    |
| 007                                                                                                   | USB & RS232 & RS485 + External Control + Multiphase Card              |
| 008                                                                                                   | USB & RS232 & RS485 + LAN & GPIB + External Control + Multiphase Card |
| 009                                                                                                   | Advanced version upgrade to professional version                      |
| 010                                                                                                   | LAN & GPIB                                                            |
| 011                                                                                                   | External Control                                                      |
| 012                                                                                                   | Multiphase Card                                                       |
| <b>Basic configuration *2 (Applicable to power range out of blue area from above Quick Selection)</b> |                                                                       |
| 101                                                                                                   | USB & RS232 & RS485 & LAN (Standard)                                  |
| 102                                                                                                   | USB & RS232 & RS485 & LAN + GPIB                                      |
| 103                                                                                                   | USB & RS232 & RS485 & LAN + External Control & Multiphase Card        |
| 104                                                                                                   | USB & RS232 & RS485 & LAN + GPIB + External Control & Multiphase Card |
| 105                                                                                                   | Advanced version upgrade to professional version                      |
| 106                                                                                                   | GPIB                                                                  |
| 107                                                                                                   | External Control & Multiphase Card                                    |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 009~012 105~107 support the model which has shipped.

## SPST Series Linked 3-Phase AC Power Supply System



(9U) 1800W~4500W



(17U) 6000W~15000W

### Product Introduction

It is a single 3-phase output programmable AC power supply which provides with high power density. With high speed DSP+CPLD control, high frequency PWM technology, active PFC design, It is able to provide not only stable DC/AC output power, but also 3-phase / 1-phase output. It is featured with high power density, high reliability and high precision, meanwhile it possesses operation interface of touch screen and keys manually. It is able to analog output normal or abnormal power input for electrical device to meet test requirements, which is applicable to electric, lighting, aviation sectors, etc. It could be applied to enterprise's production test as well.

### Features

- Large touch color screen, possess complete functions and easy to operate.
- AC+DC mixed or independent output mode for voltage DC offset simulation.
- Capable of setting output slope/phase angle, 0~359.9°.
- Output frequency 15~1000Hz, capable of setting output slope of voltage and frequency.
- High output crest factor could satisfy surge tests requirements.
- Multiple current measuring level selection. Increase measurement accuracy.
- Standard USB data interface, support CSV file waveform import.
- OCP/OVP/OPP/OTP/Short circuit protection.
- Built-in power meter, which is capable of measuring 15 electrical parameters per phase, including voltage, current, power, etc.
- With reverse current protection to avoid current flowing backward.
- Capable of setting voltage and current output restriction, support for constant current output mode.

## Quick Selection

| Output Voltage | Output Mode | 9U Cabinet |           |            | 17U Cabinet |             |         |         |
|----------------|-------------|------------|-----------|------------|-------------|-------------|---------|---------|
|                |             | 1800W      | 3000W     | 4500W      | 6000W       | 9000W       | 12000W  | 15000W  |
| 150VAC/300VAC  | 1/3 Phase   | 5.6A/2.8A  | 9.2A/4.6A | 13.8A/6.9A | 16A/8A      | 27.6A/13.8A | 32A/16A | 46A/23A |

\* This formula is the standard cabinet for SP-300 series 2U/3U/4U model. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

## Product Configuration

| Product Code <sup>*1</sup>                                                         | Configuration Content                |
|------------------------------------------------------------------------------------|--------------------------------------|
| <b>Basic configuration <sup>*2</sup> (Applicable to 1800W/3000W/4500W)</b>         |                                      |
| 001                                                                                | USB & RS232 & RS485 (Standard)       |
| 002                                                                                | USB & RS232 & RS485 + LAN & GPIB     |
| 003                                                                                | LAN & GPIB                           |
| <b>Basic configuration <sup>*2</sup> (Applicable to 6000W/9000W/12000W/15000W)</b> |                                      |
| 101                                                                                | USB & RS232 & RS485 & LAN (Standard) |
| 102                                                                                | USB & RS232 & RS485 & LAN + GPIB     |
| 103                                                                                | GPIB                                 |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select basic configuration before order, 003 and 103 support the model which has shipped.

## EL Series High-density Programmable DC Electronic Load



### Product Introduction

This series High-density Programmable DC Electronic Load provides three voltage ranges 200V/600V/1200V. Supports CV, CC, CR and CP these 4 basic operating modes, as well as CV+CC, CV+CR, CR+CC these 3 complex operating modes. Full protection including OCP, OPP, OTP, over voltage and reverse alarm. Support external control and monitor mode, the 0 to 10V input or output signal represent 0 to full range voltage or current. Provide OCP test, OPP test and Short circuit simulation to effectively solve the application demands for power and automated testing. Built-in RS232, RS485 and USB communication interfaces, LAN&GPIB communication card is optional. Two or more loads can be connected in master-slave parallel mode to provide more power or current capacity. This series DC load can be applied to battery discharge, DC charging station and power electronics and other electronics products.

### Features

- Flippable front panel and color touch screen allow convenient access and operation.
- Provides four kinds of basic working mode such as CV/CC/CR/CP, and CV+CC/CV+CR/CR+CC complex operating modes.
- Adjustable current slew rate, adjustable CV loop speed.
- Ultra high precision voltage & current measurement.
- OCP/OPP testing function.
- 50kHz high-speed CC/CR dynamic mode.
- 500kHz high-speed voltage and current sampling rate.
- Timing & discharging measurement for batteries.
- Short circuit test mode.
- Auto mode function provides an easy way to do complicated test.
- Dynamic frequency sweep function for determining worst case voltage peaks.\*
- Non linear load mode function makes the simulated loading current more realistic.\*
- Supports external analog control function
- V-monitor/I-monitor.
- LED load simulation function.
- Full protection: OCP, OPP, OTP, over voltage and reverse alarm.
- Up to 20 units master/slave parallel control.
- Front panel USB interface supports data import and export.
- SCPI language and standard rack size make it ideal for ATE System integration.
- Smart fan control with lower noise and better for environment.
- Multi versions to meet the cost performance and different applications.

\* Only professional Electronic Load units support these functions.

## Quick Selection

| Input Voltage | 2U    |        |        |        |        | 3U     |        |        | 4U     |
|---------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
|               | 600W  | 1200W  | 1800W  | 2400W  | 3000W  | 3400W  | 4400W  | 5600W  | 6600W  |
| 200VDC        | 60A   | 130A   | 190A   | 260A   | 320A   | 370A   | 480A   | 610A   | 720A   |
| 600VDC        | 40A   | 90A    | 130A   | 180A   | 220A   | 250A   | 320A   | 410A   | 480A   |
| 1200VDC       | *     | 45A    | *      | 90A    | *      | 125A   | 160A   | 205A   | 240A   |
| Input Voltage | 7U    |        |        | 10U    |        |        | 13U    |        |        |
|               | 8800W | 11000W | 13200W | 15400W | 17600W | 19800W | 22000W | 24200W | 26400W |
| 200VDC        | 960A  | 1200A  | 1440A  | 1680A  | 1920A  | 2160A  | 2400A  | 2640A  | 2880A  |
| 600VDC        | 640A  | 800A   | 960A   | 1120A  | 1280A  | 1440A  | 1600A  | 1760A  | 1920A  |
| 1200VDC       | 320A  | 400A   | 480A   | 560A   | 640A   | 720A   | 800A   | 880A   | 960A   |

\* Custom master slave system could extend to 528KW(20 units 26.4KW E-load parallel connect).

## Product Configuration

| Product Code *1        | Configuration Content                            |
|------------------------|--------------------------------------------------|
| Product Version *2     |                                                  |
| A                      | Advanced                                         |
| P                      | Professional                                     |
| Basic configuration *2 |                                                  |
| 001                    | USB & RS232 & RS485 (Standard)                   |
| 002                    | USB & RS232 & RS485 + LAN & GPIB                 |
| 003                    | Advanced version upgrade to professional version |
| 004                    | LAN & GPIB                                       |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 003~004 support the model which has shipped.

## ELS Series DC Electronic Load System



### Product Introduction

The standardized DC electronic load cabinet is formed with 7U height units. The maximum input current and power of a single cabinet is up to 3000A, 66kW. Support master-slave configuration to increase the input capacity to 264kW.

These cabinets use world famous circuit breaker to control the input of DC E-load module inside. After power on, the specified unit will be configured as a Master to control all of the slave units. In an emergency off situation the EMS will cut all units in the cabinet from AC supply, ensure safe operation.

### Features

- Provides four kinds of basic working mode such as CV/CC/CR/CP, and CV+CC/CV+CR/CR+CC complex operating modes.
- Adjustable current slew rate, adjustable CV loop speed.
- Ultra high precision voltage & current measurement.
- Short circuit test mode.
- Auto mode function provides an easy way to do complicated test.
- V-monitor/I-monitor.
- Full protection: OCP, OPP, OTP, over voltage and reverse alarm.
- Equipped with Emergency Stop, physically off all managed DC eLoads at once.
- Back door with protect switch, safe to the operator.
- Front panel USB interface supports data import and export.
- Using standard SCPI communication protocol.

## Quick Selection

| Input Voltage | 30U Cabinet | 36U Cabinet | 42U Cabinet |
|---------------|-------------|-------------|-------------|
|               | 39.6kW      | 52.8kW      | 66kW        |
| 200VDC        | 3000A       | 3000A       | 3000A       |
| 600VDC        | 2880A       | 3000A       | 3000A       |
| 1200VDC       | 1440A       | 1920A       | 2400A       |

\* This formula is the standard cabinet for EL series 7U model. It could extend to 264W. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

## System Configuration

|                           |     |     |     |
|---------------------------|-----|-----|-----|
| Cabinet Height            | 30U | 36U | 42U |
| Capacity for Loads        | 21U | 28U | 35U |
| Capacity (7U height unit) | 3   | 4   | 5   |
| PDU Height                | 3U  | 3U  | 3U  |
| EMS Panel Height          | 1U  | 1U  | 1U  |
| Cabinet Frame             | 2U  | 2U  | 2U  |
| Reserved                  | 3U  | 2U  | 1U  |

## Product Configuration

| Product Code <sup>*1</sup>               | Configuration Content                            |
|------------------------------------------|--------------------------------------------------|
| <b>Product Version <sup>*2</sup></b>     |                                                  |
| A                                        | Advanced                                         |
| P                                        | Professional                                     |
| <b>Basic configuration <sup>*2</sup></b> |                                                  |
| 001                                      | USB & RS232 & RS485 (Standard)                   |
| 002                                      | USB & RS232 & RS485 + LAN & GPIB                 |
| 003                                      | Advanced version upgrade to professional version |
| 004                                      | LAN & GPIB                                       |
| <b>Panel Configuration <sup>*3</sup></b> |                                                  |
| S001                                     | Only master unit display, slave unit hidden      |
| S002                                     | Both master and slave unit hidden                |
| S003                                     | Both master and slave unit display               |

\*1 Product code is for customer to select configuration easily. Kindly note the code is not reflected in the actual model name.

\*2 Select product version + basic configuration before order, 003~004 support the model which has shipped.

\*3 Panel configuration need to confirm before shipment.

# AT-T2000 Series ATE System

## Product Introduction

AT-T2000 ATE system adopts hardware modularization built-in frame structure. With APM multiple power supplies, E-load and APM self-control boards, the structure could adjust according to actual test requirement and budget, which provides elasticity and expandability to the system. In the meanwhile, system is compatible with power analyzer, oscilloscope and multimeter from different brands.

### ► Range of application

AC source, DC source, DC E-load, AC/DC power module, DC/DC power module, adapter, charger, LED power source, telecom power source.

## Features

- Graphic interface, simple and clear.
- Standard test item, available to expand elastically.
- Module design, easy to maintain.
- High measurement accuracy, stable system operation.
- Support single or multi channel parallel test.
- Multilevel managing privileges setting function.
- User privileges setting function.
- Open software edition platform, available to edit and modify the test program.

## Test Item

ATE system is available for below seven test items.

### Product information

SN/MAC information written  
Product information comparison

### Stability test

line regulation test  
load regulation test

### Protection test

Short circuit test  
OVP test  
OLP test  
OPP test

### Time sequence and transient feature

Turn on time test  
Rise time test  
Turn off time test  
Fall time test

### Input feature test

Input current RMS test  
Input power factor test  
Input power disturbance test  
Input frequency fluctuation test  
Input power test

### Output feature test

Output voltage/current/power accuracy test  
Output voltage ripple test  
Output efficiency test  
Dynamic mode test

### Control feature test

RS232 read-write  
RS485 read-write  
USB read-write  
LAN read-write  
GPIB read-write

## AC-DC/DC-DC power module test system

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This system is applicable in AC-DC/DC-DC power module test.

AC-DC/DC-DC module power is widely used in military, communication equipment, automotive electronics and aerospace. Standard test item of test system matching with external test fixtures could realize automatic test. It could avoid error that may be caused by repeated test manually and improve test efficiency significantly.

## Low/middle power DC source test system

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This test system is applicable to low/small power range DC source test.

Test ability: Voltage 0~800VDC, Current 0~200A, Power 0~4000W, extendable.

Besides above standard test item, available to extend custom function.

## Low/middle power AC source test system

---



This test system is applicable to low/small power range AC source test.

Test ability: Voltage 0~300VAC, Current 0~46A, Power 0~5000W, extendable.

Besides above standard test item, available to extend custom function.

## DC E-load test system

---

This test system is applicable to DC E-load test .

Test ability: Voltage 0~1200VDC, Current 0~3000A, Power 0~300KW, extendable.

Besides above standard test item, available to extend custom function.



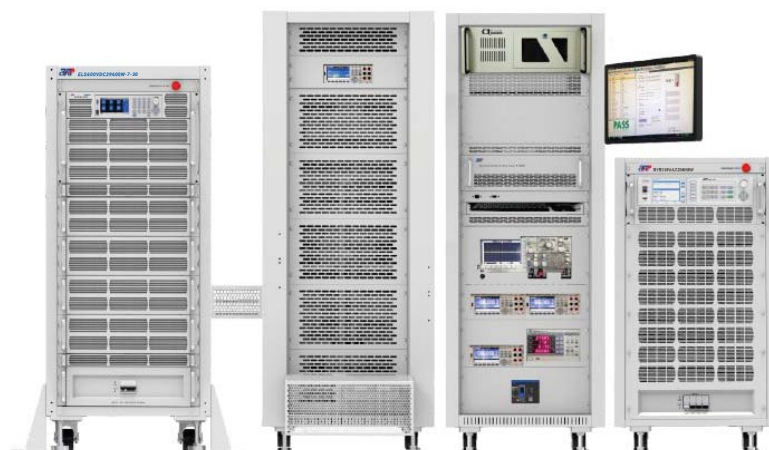
## High power DC sources test system

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This test system is applicable to High power DC sources test.

Test ability: Voltage 0~2250VDC, Current 0~3000A, Power 0~300KW, extendable.

Besides above standard test item, available to extend custom function.



# Company History

## 2019~2020

### 2020

Launch ELS Series DC Electronic Load System.

### 2019

Launch SP-3U/6U Series DC Power Supply(6kW~36kW); SPS-M/A Series DC Power Supply System(SPSM; SPSA);  
Launch EL Series DC Electronic Load(1.2kW~26.4kW).

## 2017~2018

### 2018

Launch SP-300 Series AC Power Supply(2U); SPST Series AC Power Supply System;  
SPS Series DC Power Supply System; Inverter/Switching Power Supply Test System.

### 2017

Launch SP-300 Series AC Power Supply(3U, 4U).

## 2014~2016

### 2016

[Won the "high-tech enterprise" title.](#)

### 2015

Launch one-stop ICT+FCT online test system and dispensing system to realize unattended operation.  
Launch SP-1U/2U Series DC Power Supply(1U).  
Launch Marine smart system products.

### 2014

Launch Energy Saving Burn-in System, with a recovery rate of about 85%.  
Launch SP-1U/2U Series DC Power Supply(2U).  
Board card type electronic load, board card type power meter are included in development, which helps automation test system.

## 2012~2013

### 2013

Programmable power supply complete product development and experiment, enter into the application and reliability testing stage.  
Launch extended type high speed dispensing machine for Lens.

### 2012

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## 2010~2011

### 2011

Set up sheet metal workshop, machining workshop, assembly workshop and painting factory.  
Project development of programmable power supply, marine smart navigation system.

### 2010

New products released: High Speed Dispensing Machine, Conformal Coating Machine, ICT and FCT.

## 1989~1999

### 1999

Established factory in Dongguan, China.

### 1989

[Factory Found in Taiwan.](#)

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