

Efficiency, Stability, Reliable, Precision



High Power DC Power Supply

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High Power DC Power Supply

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High Power DC Power Supply

Selection List:

| Model | Voltage | Current | Power | Corresponding page |
|-----------------|---------|---------|--------|--------------------|
| SP80VDC6000W | 80V | 200A | 6000W | P01 |
| SP80VDC12000W | 80V | 400A | 12000W | P01 |
| SP80VDC18000W | 80V | 600A | 18000W | P01 |
| SP80VDC24000W | 80V | 800A | 24000W | P03 |
| SP80VDC30000W | 80V | 1000A | 30000W | P03 |
| SP80VDC36000W | 80V | 1200A | 36000W | P03 |
| SP165VDC12000W | 165V | 180A | 12000W | P05 |
| SP165VDC24000W | 165V | 360A | 24000W | P05 |
| SP250VDC18000W | 250V | 180A | 18000W | P07 |
| SP500VDC6000W | 500V | 32A | 6000W | P09 |
| SP500VDC12000W | 500V | 64A | 12000W | P09 |
| SP500VDC18000W | 500V | 96A | 18000W | P09 |
| SP500VDC24000W | 500V | 128A | 24000W | P11 |
| SP500VDC30000W | 500V | 160A | 30000W | P11 |
| SP500VDC36000W | 500V | 192A | 36000W | P11 |
| SP750VDC6000W | 750V | 21A | 6000W | P13 |
| SP750VDC12000W | 750V | 42A | 12000W | P13 |
| SP750VDC18000W | 750V | 63A | 18000W | P13 |
| SP750VDC24000W | 750V | 84A | 24000W | P15 |
| SP750VDC30000W | 750V | 105A | 30000W | P15 |
| SP750VDC36000W | 750V | 126A | 36000W | P15 |
| SP1000VDC12000W | 1000V | 32A | 12000W | P17 |
| SP1000VDC24000W | 1000V | 64A | 24000W | P17 |
| SP1500VDC12000W | 1500V | 21A | 12000W | P19 |
| SP1500VDC18000W | 1500V | 32A | 18000W | P19 |
| SP1500VDC24000W | 1500V | 42A | 24000W | P21 |
| SP2250VDC18000W | 2250V | 21A | 18000W | P23 |

High Power DC Power Supply

| MODEL | SP80VDC6000W | SP80VDC12000W | SP80VDC18000W | |
|--|--|---|-------------------------------------|--------------------|
| Input | | | | |
| Voltage ^[1] | 187~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-0, L2,L3-38A | 3P208 L1-60A, L2,L3-38A | 3P208 L1,L2,L3-60A | |
| | 3P400 L1-0, L2,L3-19A | 3P400 L1-30A, L2,L3-19A | 3P400 L1,L2,L3-30A | |
| Frequency | 45~65Hz | | | |
| Connection | 2ph, PE | 3ph, PE | 3ph, PE | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 7.2kVAmax | 14.4kVAmax | 21.6kVAmax | |
| Efficiency ^[1] | 3P208 ~90.5%@80V, 3P208 ~86.5%@200A | 3P208 ~90.5%@80V, 3P208 ~86.5%@400A | 3P208 ~90.5%@80V, 3P208 ~86.5%@600A | |
| | 3P400 ~92.2%@80V, 3P400 ~87.8%@200A | 3P400 ~92.2%@80V, 3P400 ~87.8%@400A | 3P400 ~92.2%@80V, 3P400 ~87.8%@600A | |
| Output | | | | |
| Voltage Range | 0~80V | | | |
| Current Range ^[2] | 0~200A | 0~400A | 0~600A | |
| Power Range | 0~6000W | 0~12000W | 0~18000W | |
| Max. Setup Range | Voltage | 0~84V(0~105%) | | |
| | Current | 0~210A(0~105%) | 0~420A(0~105%) | 0~630A(0~105%) |
| | Power | 0~6300W(0~105%) | | |
| | Internal Resistance | 0~12Ω | 0~6Ω | 0~4Ω |
| Accuracy | Voltage | <0.1%Umax(80mV) | | |
| | Current | <0.2%Imax(400mA) | <0.2%Imax(800mA) | <0.2%Imax(1200mA) |
| | Power | <0.5%+30W | | |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | | |
| Line Regulation | Voltage | <0.02%Umax(16mV) | | |
| | Current | <0.05%Imax(100mA) | <0.05%Imax(200mA) | <0.05%Imax(300mA) |
| | Power | <0.05%Pmax | | |
| Load Regulation ^[3] | Voltage | <0.05%Umax(40mV) @Rated Voltage, <0.1%Umax(80mV) @Rated Current | | |
| | Current | <0.15%Imax(300mA) | <0.15%Imax(600mA) | <0.15%Imax(900mA) |
| | Power | <0.75%Pmax | | |
| Rise Time | Voltage <15ms (No Load) <30ms (Full Load) | | | |
| Drop Time | Voltage <850ms (No Load) <15ms (Full Load) | | | |
| Transient Response Time ^[4] | Voltage ≤1.5ms/0.8V | | | |
| Display Resolution | Voltage | 0.001V | | |
| | Current | 0.001A | | |
| | Power | 0.1W | | |
| | Internal Resistance | 0.0001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(80mV) | | |
| | Current | <0.2%Imax(400mA) | <0.2%Imax(800mA) | <0.2%Imax(1200mA) |
| | Power | <0.5%Pmax | | |
| | Internal Resistance | <0.4%Rmax | | |
| Ripple ^[5] | Voltage | <180mVpp, <15mVrms | <288mVpp, <23mVrms | <320mVpp, <25mVrms |
| | Current | <100mArms | <200mArms | <300mArms |
| Remote Compensation | Voltage 5%Umax(4V) | | | |
| Sink Function | | | | |
| Input Voltage | 0~80V | | | |
| Input Current | 0~99A | 0~198A | 0~297A | |
| Input Power | 0~325W | 0~650W | 0~1000W | |
| Min. Operating Voltage | 1.8V@5A | | | |
| CC Resolution | 10mA | | | |

| MODEL | SP80VDC6000W | SP80VDC12000W | SP80VDC18000W |
|--------------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(198mA) | <0.2%Imax(396mA) | <0.2%Imax(594mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(80mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(1625mW) | <0.5%Pmax(3250mW) | <0.5%Pmax(5000mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Master/Slave Control | | | |
| Series Output | MAX 2 units | | |
| Parallel Output | MAX 16 units | | |
| Environmental | | | |
| Operating Temperature ^[2] | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 45dB Idle; 71dB Max; | 45dB Idle; 73dB Max; | 45dB Idle; 75dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | | |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | | |
| Unit Weight | 27kg | 38kg | 50kg |
| Shipping Weight | 37kg | 48kg | 60kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | SP80VDC24000W | SP80VDC30000W | SP80VDC36000W | |
|--|--|---|--------------------------------------|--------------------|
| Input | | | | |
| Voltage ^[1] | 200~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-60A, L2,L3-103A | 3P208 L1-125A,L2,L3-103A | 3P208 L1,L2,L3-125A | |
| | 3P400 L1-30A, L2,L3-49A | 3P400 L1-63A,L2,L3-49A | 3P400 L1,L2,L3-63A | |
| Frequency | 45~65Hz | | | |
| Connection | 3ph, PE | | | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 28.8kVAmax | 36kVAmax | 43.2kVAmax | |
| Efficiency ^[1] | 3P208 ~90.5%@80V, 3P208 ~86.5%@800A | 3P208 ~90.5%@80V, 3P208 ~86.5%@1000A | 3P208 ~90.5%@80V, 3P208 ~86.5%@1200A | |
| | 3P400 ~92.2%@80V, 3P400 ~87.8%@800A | 3P400 ~92.2%@80V, 3P400 ~87.8%@1000A | 3P400 ~92.2%@80V, 3P400 ~87.8%@1200A | |
| Output | | | | |
| Voltage Range | 0~80V | | | |
| Current Range ^[2] | 0~800A | 0~1000A | 0~1200A | |
| Power Range | 0~24000W | 0~30000W | 0~36000W | |
| Max. Setup Range | Voltage | 0~84V(0~105%) | | |
| | Current | 0~840A(0~105%) | 0~1050A(0~105%) | 0~1260A(0~105%) |
| | Power | 0~26400W(0~105%) | 0~31500W(0~105%) | 0~37800W(0~105%) |
| | Internal Resistance | 0~3.0Ω | 0~2.4Ω | 0~2.0Ω |
| Accuracy | Voltage | <0.1%Umax(80mV) | | |
| | Current | <0.2%Imax(1600mA) | <0.2%Imax(2000mA) | <0.2%Imax(2400mA) |
| | Power | <1%+120W | <1%+150W | <1%+180W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | | |
| Line Regulation | Voltage | <0.02%Umax(16mV) | | |
| | Current | <0.05%Imax(400mA) | <0.05%Imax(500mA) | <0.05%Imax(600mA) |
| | Power | <0.05%Pmax | | |
| Load Regulation ^[3] | Voltage | <0.05%Umax(40mV) @Rated Voltage, <0.1%Umax(80mV) @Rated Current | | |
| | Current | <0.15%Imax(1200mA) | <0.15%Imax(1500mA) | <0.15%Imax(1800mA) |
| | Power | <0.75%Pmax | | |
| Rise Time | Voltage <15ms (No Load) <30ms (Full Load) | | | |
| Drop Time | Voltage <850ms (No Load) <15ms (Full Load) | | | |
| Transient Response Time ^[4] | Voltage ≤1.5ms/0.8V | | | |
| Display Resolution | Voltage | 0.001V | | |
| | Current | 0.001A | 0.01A | 0.01A |
| | Power | 0.1W | | |
| | Internal Resistance | 0.0001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(80mV) | | |
| | Current | <0.2%Imax(1600mA) | <0.2%Imax(2000mA) | <0.2%Imax(2400mA) |
| | Power | <0.5%Pmax | | |
| | Internal Resistance | <0.4%Rmax | | |
| Ripple ^[5] | Voltage | <320mVpp, <25mVrms | | |
| | Current | <360mArms | <450mArms | <540mArms |
| Remote Compensation | Voltage | 5%Umax(4V) | | |
| Sink Function | | | | |
| Input Voltage | 0~80V | | | |
| Input Current | 0~396A | 0~495A | 0~594A | |
| Input Power | 0~1300W | 0~1600W | 0~2000W | |
| Min. Operating Voltage | 1.8V@5A | | | |
| CC Resolution | 10mA | | | |

| MODEL | SP80VDC24000W | SP80VDC30000W | SP80VDC36000W |
|--------------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(792mA) | <0.2%Imax(990mA) | <0.2%Imax(1188mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(80mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(6500mW) | <0.5%Pmax(8000mW) | <0.5%Pmax(10000mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Environmental | | | |
| Operating Temperature ^[2] | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 48dB Idle; 77dB Max; | 48dB Idle; 80dB Max; | 48dB Idle; 82dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x265.0x740.0 mm | | |
| Package Dimensions (WxHxD) | 549.0x531.0x946.0 mm | | |
| Unit Weight | 75kg | 86kg | 97kg |
| Shipping Weight | 101kg | 112kg | 113kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP165VDC12000W | SP165VDC24000W |
|--|---------------------|--|--------------------------------------|
| Input | | | |
| Voltage ^[1] | | 187~253VAC 340~460VAC | 200~253VAC |
| Current ^[1] | | 3P208 L1-60A, L2,L3-38A | 3P208 L1-125A,L2,L3-103A |
| | | 3P400 L1-30A, L2,L3-19A | 3P400 L1-63A,L2,L3-49A |
| Frequency | | 45~65Hz | |
| Connection | | 3ph, PE | |
| Fuse (Internal) ^[1] | | T50A*2pcs | |
| | | T30A*2pcs | |
| Power Factor | | >0.99 | |
| Input Power | | 14.5kVAmax | 29kVAmax |
| Efficiency ^[1] | | 3P208 ~90.5%@165V, 3P208 ~85%@180A | 3P208 ~90.5%@165V, 3P208 ~85%@360A |
| | | 3P400 ~91.5%@165V, 3P400 ~85.5%@180A | 3P400 ~91.5%@165V, 3P400 ~85.5%@360A |
| Output | | | |
| Voltage Range | | 0~165V | |
| Current Range ^[2] | | 0~180A | 0~360A |
| Power Range | | 0~12000W | 0~24000W |
| Max. Setup Range | Voltage | 0~173.25V(0~105%) | |
| | Current | 0~189A(0~105%) | 0~378A(0~105%) |
| | Power | 0~12600W(0~105%) | 0~25200W(0~105%) |
| | Internal Resistance | 0~27.5Ω | 0~13.8Ω |
| Accuracy | Voltage | <0.1%Umax(165mV) | |
| | Current | <0.2%Imax(360mA) | <0.2%Imax(720mA) |
| | Power | <0.5%+60W | <1%+120W |
| | Internal Resistance | R<2% Rmax, l<0.3% Imax | |
| Line Regulation | Voltage | <0.02%Umax(33mV) | |
| | Current | <0.05%Imax(90mA) | <0.05%Imax(180mA) |
| | Power | <0.05%Pmax | |
| Load Regulation ^[3] | Voltage | <0.05%Umax(82.5mV) @Rated Voltage, <0.1%Umax(165mV) @Rated Current | |
| | Current | <0.15%Imax(270mA) | <0.15%Imax(540mA) |
| | Power | <0.75%Pmax | |
| Rise Time | Voltage | <15ms (No Load) <30ms (Full Load) | |
| Drop Time | Voltage | <900ms (No Load) <15ms (Full Load) | |
| Transient Response Time ^[4] | Voltage | ≤1.5ms/1.65V | |
| Display Resolution | Voltage | 0.001V | |
| | Current | 0.001A | |
| | Power | 0.1W | |
| | Internal Resistance | 0.0001Ω | |
| Measurement Accuracy | Voltage | <0.1%Umax(165mV) | |
| | Current | <0.2%Imax(360mA) | <0.2%Imax(720mA) |
| | Power | <0.5%Pmax | |
| | Internal Resistance | <0.4%Rmax | |
| Ripple ^[5] | Voltage | <540mVpp, <50mVrms | |
| | Current | <100mArms | <200mArms |
| Remote Compensation | Voltage | 2%Umax(3.3V) | |
| General | | | |
| Graphic Display | | 4.3" Color touch LCD | |
| Operation Key Feature | | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | |
| Rack Mount Handles | | Yes | |
| FAN | | Temperature control | |
| Protection | | OCP, OVP, OPP, OTP, HARD FAIL | |

| MODEL | SP165VDC12000W | SP165VDC24000W |
|--------------------------------------|--|-------------------------|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | |
| Command Response Time | <3ms | |
| Analog Interface(Optional) | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | |
| Accuracy U//P/R | <0.2% F.S | |
| Actual Output U/I | <0.2% | |
| Control Signals | DC ON/OFF, External control Enable/Disable | |
| Status Signals | CV, OVP, OT | |
| Sampling Rate of Input & Output | 45Hz | |
| Galvanic Isolation to the Device | 1.5kVDC | |
| Master/Slave Control | | |
| Series Output | MAX 2 units | |
| Parallel Output | MAX 16 units | |
| Environmental | | |
| Operating Temperature ^[2] | 0~40°C | |
| Storage Temperature | -20~70°C | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | |
| Altitude | <2000m@40°C | |
| Fan Noise | 45dB Idle; 73dB Max; | 48dB Idle; 80dB Max; |
| Mechanical | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | 423.0x265.0x740.0 mm |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | 549.0x531.0x946.0 mm |
| Unit Weight | 38kg | 75kg |
| Shipping Weight | 48kg | 101kg |
| Miscellaneous | | |
| Over Voltage Category | II | |
| Protection Class | I | |
| Pollution Degree | 2 | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP250VDC18000W |
|--|--|---|
| Input | | |
| Voltage ^[1] | 190~253VAC | |
| | 340~460VAC | |
| Current ^[1] | 3P208 L1,L2,L3-60A | |
| | 3P400 L1,L2,L3-30A | |
| Frequency | 45~65Hz | |
| Connection | 3ph, PE | |
| Fuse (Internal) ^[1] | T50A*2pcs | |
| | T30A*2pcs | |
| Power Factor | >0.99 | |
| Input Power | 21.75kVAmx | |
| Efficiency ^[1] | 3P208 ~90.5%@250V, 3P208 ~85%@180A | |
| | 3P400 ~91.5%@250V, 3P400 ~85.5%@180A | |
| Output | | |
| Voltage Range | 0~250V | |
| Current Range ^[2] | 0~180A | |
| Power Range | 0~18000W | |
| Max. Setup Range | Voltage | 0~262.5V(0~105%) |
| | Current | 0~189A(0~105%) |
| | Power | 0~18900W(0~105%) |
| | Internal Resistance | 0~41.7Ω |
| Accuracy | Voltage | <0.1%Umax(250mV) |
| | Current | <0.2%Imax(360mA) |
| | Power | <0.5%+90W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax |
| Line Regulation | Voltage | <0.02%Umax(50mV) |
| | Current | <0.05%Imax(90mA) |
| | Power | <0.05%Pmax |
| Load Regulation ^[3] | Voltage | <0.05%Umax(125mV) @Rated Voltage, <0.1%Umax(250mV) @Rated Current |
| | Current | <0.15%Imax(270mA) |
| | Power | <0.75%Pmax |
| Rise Time | Voltage | <15ms (No Load) <30ms (Full Load) |
| Drop Time | Voltage | <950ms (No Load) <15ms (Full Load) |
| Transient Response Time ^[4] | Voltage | ≤1.5ms/2.5V |
| Display Resolution | Voltage | 0.001V |
| | Current | 0.001A |
| | Power | 0.1W |
| | Internal Resistance | 0.0001Ω |
| Measurement Accuracy | Voltage | <0.1%Umax(250mV) |
| | Current | <0.2%Imax(360mA) |
| | Power | <0.5%Pmax |
| | Internal Resistance | <0.4%Rmax |
| Ripple ^[5] | Voltage | <850mVpp, <75mVrms |
| | Current | <100mArms |
| Remote Compensation | Voltage | 1%Umax(2.5V) |
| General | | |
| Graphic Display | 4.3" Color touch LCD | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | |
| Rack Mount Handles | Yes | |
| FAN | Temperature control | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | |

| MODEL | SP250VDC18000W |
|--------------------------------------|--|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) |
| Command Response Time | <3ms |
| Analog Interface(Optional) | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. |
| Accuracy U/I/P/R | <0.2% F.S |
| Actual Output U/I | <0.2% |
| Control Signals | DC ON/OFF, External control Enable/Disable |
| Status Signals | CV, OVP, OT |
| Sampling Rate of Input & Output | 45Hz |
| Galvanic Isolation to the Device | 1.5kVDC |
| Master/Slave Control | |
| Series Output | MAX 2 units |
| Parallel Output | MAX 16 units |
| Environmental | |
| Operating Temperature ^[2] | 0~40°C |
| Storage Temperature | -20~70°C |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C |
| Altitude | <2000m@40°C |
| Fan Noise | 45dB Idle; 75dB Max; |
| Mechanical | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm |
| Unit Weight | 50kg |
| Shipping Weight | 60kg |
| Miscellaneous | |
| Over Voltage Category | II |
| Protection Class | I |
| Pollution Degree | 2 |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 10% to 90% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | SP500VDC6000W | SP500VDC12000W | SP500VDC18000W | |
|--|---|---|-----------------------------------|---------------------|
| Input | | | | |
| Voltage ^[1] | 187~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-0, L2,L3-38A | 3P208 L1-60A, L2,L3-38A | 3P208 L1,L2,L3-60A | |
| | 3P400 L1-0, L2,L3-19A | 3P400 L1-30A, L2,L3-19A | 3P400 L1,L2,L3-30A | |
| Frequency | 45~65Hz | | | |
| Connection | 2ph, PE | 3ph, PE | 3ph, PE | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 7.2kVAmax | 14.4kVAmax | 21.6kVAmax | |
| Efficiency ^[1] | 3P208 ~92.5%@500V, 3P208 ~91%@32A | 3P208 ~92.5%@500V, 3P208 ~91%@64A | 3P208 ~92.5%@500V, 3P208 ~91%@96A | |
| | 3P400 ~94%@500V, 3P400 ~92.5%@32A | 3P400 ~94%@500V, 3P400 ~92.5%@64A | 3P400 ~94%@500V, 3P400 ~92.5%@96A | |
| Output | | | | |
| Voltage Range | 0~500V | | | |
| Current Range | 0~32A | 0~64A | 0~96A | |
| Power Range | 0~6000W | 0~12000W | 0~18000W | |
| Max. Setup Range | Voltage | 0~525V(0~105%) | | |
| | Current | 0~33.6A(0~105%) | 0~67.2A(0~105%) | 0~100.8A(0~105%) |
| | Power | 0~6300W(0~105%) | | |
| | Internal Resistance | 0~469Ω | 0~235Ω | 0~157Ω |
| Accuracy | Voltage | <0.1%Umax(500mV) | | |
| | Current | <0.2%Imax(64mA) | <0.2%Imax(128mA) | <0.2%Imax(192mA) |
| | Power | <1%+60W | | |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | | |
| Line Regulation | Voltage | <0.02%Umax(100mV) | | |
| | Current | <0.05%Imax(16mA) | <0.05%Imax(32mA) | <0.05%Imax(48mA) |
| | Power | <0.05%Pmax | | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(250mV) @Rated Voltage, <0.1%Umax(500mV) @Rated Current | | |
| | Current | <0.15%Imax(48mA) | <0.15%Imax(96mA) | <0.15%Imax(144mA) |
| | Power | <0.75%Pmax | | |
| Rise Time | Voltage <15ms (No Load) <80ms (Full Load) | | | |
| Drop Time | Voltage <1500ms (No Load) <15ms (Full Load) | | | |
| Transient Response Time ^[3] | Voltage ≤1.5ms/5V | | | |
| Display Resolution | Voltage | 0.01V | | |
| | Current | 0.001A | | |
| | Power | 1W | | |
| | Internal Resistance | 0.001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(500mV) | | |
| | Current | <0.2%Imax(64mA) | <0.2%Imax(128mA) | <0.2%Imax(192mA) |
| | Power | <0.5%Pmax | | |
| | Internal Resistance | <0.4%Rmax | | |
| Ripple ^[4] | Voltage | <600mVpp, <150mVrms | <650mVpp, <160mVrms | <650mVpp, <160mVrms |
| | Current | <16mArms | <32mArms | <48mArms |
| Remote Compensation | Voltage | 3%Umax(15V) | | |
| Sink Function | | | | |
| Input Voltage | 0~500V | | | |
| Input Current | 0~16A | 0~24A | 0~40A | |
| Input Power | 0~325W | 0~650W | 0~975W | |
| Min. Operating Voltage | 8V@3.7A | | | |
| CC Resolution | 1mA | | | |

| MODEL | SP500VDC6000W | SP500VDC12000W | SP500VDC18000W |
|-----------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(32mA) | <0.2%Imax(64mA) | <0.2%Imax(96mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(500mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(1625mW) | <0.5%Pmax(3250mW) | <0.5%Pmax(4875mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Master/Slave Control | | | |
| Series Output | MAX 2 units | | |
| Parallel Output | MAX 16 units | | |
| Environmental | | | |
| Operating Temperature | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 45dB Idle; 71dB Max; | 45dB Idle; 73dB Max; | 45dB Idle; 75dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | | |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | | |
| Unit Weight | 27kg | 38kg | 50kg |
| Shipping Weight | 37kg | 48kg | 60kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | SP500VDC24000W | SP500VDC30000W | SP500VDC36000W | |
|--|---|---|------------------------------------|-------------------|
| Input | | | | |
| Voltage ^[1] | 200~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-60A, L2,L3-103A | 3P208 L1-125A,L2,L3-103A | 3P208 L1,L2,L3-125A | |
| | 3P400 L1-30A, L2,L3-49A | 3P400 L1-63A,L2,L3-49A | 3P400 L1,L2,L3-63A | |
| Frequency | 45~65Hz | | | |
| Connection | 3ph, PE | | | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 28.8kVAmax | 36kVAmax | 43.2kVAmax | |
| Efficiency ^[1] | 3P208 ~92.5%@500V, 3P208 ~91%@128A | 3P208 ~92.5%@500V, 3P208 ~91%@160A | 3P208 ~92.5%@500V, 3P208 ~91%@192A | |
| | 3P400 ~94%@500V, 3P400 ~92.5%@128A | 3P400 ~94%@500V, 3P400 ~92.5%@160A | 3P400 ~94%@500V, 3P400 ~92.5%@192A | |
| Output | | | | |
| Voltage Range | 0~500V | | | |
| Current Range | 0~128A | 0~160A | 0~192A | |
| Power Range | 0~24000W | 0~30000W | 0~36000W | |
| Max. Setup Range | Voltage | 0~525V(0~105%) | | |
| | Current | 0~134.4A(0~105%) | 0~168A(0~105%) | 0~201.6A(0~105%) |
| | Power | 0~26400W(0~105%) | | 0~37800W(0~105%) |
| | Internal Resistance | 0~118Ω | 0~94Ω | 0~79Ω |
| Accuracy | Voltage | <0.1%Umax(500mV) | | |
| | Current | <0.2%Imax(256mA) | <0.2%Imax(320mA) | <0.2%Imax(384mA) |
| | Power | <1%+180W | | <1%+360W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | | |
| Line Regulation | Voltage | <0.02%Umax(100mV) | | |
| | Current | <0.05%Imax(64mA) | <0.05%Imax(80mA) | <0.05%Imax(96mA) |
| | Power | <0.05%Pmax | | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(250mV) @Rated Voltage, <0.1%Umax(500mV) @Rated Current | | |
| | Current | <0.15%Imax(192mA) | <0.15%Imax(240mA) | <0.15%Imax(288mA) |
| | Power | <0.75%Pmax | | |
| Rise Time | Voltage <15ms (No Load) <80ms (Full Load) | | | |
| Drop Time | Voltage <1500ms (No Load) <15ms (Full Load) | | | |
| Transient Response Time ^[3] | Voltage ≤1.5ms/5V | | | |
| Display Resolution | Voltage | 0.01V | | |
| | Current | 0.001A | | |
| | Power | 1W | | |
| | Internal Resistance | 0.001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(500mV) | | |
| | Current | <0.2%Imax(256mA) | <0.2%Imax(320mA) | <0.2%Imax(384mA) |
| | Power | <0.5%Pmax | | |
| | Internal Resistance | <0.4%Rmax | | |
| Ripple ^[4] | Voltage | <650mVpp, <160mVrms | | |
| | Current | <64mArms | <80mArms | <96mArms |
| Remote Compensation | Voltage 3%Umax(15V) | | | |
| Sink Function | | | | |
| Input Voltage | 0~500V | | | |
| Input Current | 0~56A | 0~64A | 0~80A | |
| Input Power | 0~1300W | 0~1625W | 0~1950W | |
| Min. Operating Voltage | 8V@3.7A | | | |
| CC Resolution | 1mA | 10mA | 10mA | |

| MODEL | SP500VDC24000W | SP500VDC30000W | SP500VDC36000W |
|-----------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(128mA) | <0.2%Imax(160mA) | <0.2%Imax(192mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(500mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(6500mW) | <0.5%Pmax(8125mW) | <0.5%Pmax(9750mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Master/Slave Control | | | |
| Series Output | MAX 2 units | | |
| Parallel Output | MAX 16 units | | |
| Environmental | | | |
| Operating Temperature | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 48dB Idle; 77dB Max; | 48dB Idle; 80dB Max; | 48dB Idle; 82dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x265.0x740.0 mm | | |
| Package Dimensions (WxHxD) | 549.0x531.0x946.0 mm | | |
| Unit Weight | 75kg | 86kg | 97kg |
| Shipping Weight | 101kg | 112kg | 113kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | SP750VDC6000W | SP750VDC12000W | SP750VDC18000W | |
|--|--|---|-----------------------------------|----------------------|
| Input | | | | |
| Voltage ^[1] | 187~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-0, L2,L3-38A | 3P208 L1-60A, L2,L3-38A | 3P208 L1,L2,L3-60A | |
| | 3P400 L1-0, L2,L3-19A | 3P400 L1-30A, L2,L3-19A | 3P400 L1,L2,L3-30A | |
| Frequency | 45~65Hz | | | |
| Connection | 2ph, PE | 3ph, PE | 3ph, PE | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 7.2kVAmax | 14.4kVAmax | 21.6kVAmax | |
| Efficiency ^[1] | 3P208 ~92.5%@750V, 3P208 ~91%@21A | 3P208 ~92.5%@750V, 3P208 ~91%@42A | 3P208 ~92.5%@750V, 3P208 ~91%@63A | |
| | 3P400 ~92.7%@750V, 3P400 ~92%@21A | 3P400 ~92.7%@750V, 3P400 ~92%@42A | 3P400 ~92.7%@750V, 3P400 ~92%@63A | |
| Output | | | | |
| Voltage Range | 0~750V | | | |
| Current Range | 0~21A | 0~42A | 0~63A | |
| Power Range | 0~6000W | 0~12000W | 0~18000W | |
| Max. Setup Range | Voltage | 0~787.5V(0~105%) | | |
| | Current | 0~22.05A(0~105%) | 0~44.1A(0~105%) | 0~66.15A(0~105%) |
| | Power | 0~6300W(0~105%) | | 0~18900W(0~105%) |
| | Internal Resistance | 0~1072Ω | 0~536Ω | 0~358Ω |
| Accuracy | Voltage | <0.1%Umax(750mV) | | |
| | Current | <0.2%Imax(42mA) | <0.2%Imax(84mA) | <0.2%Imax(126mA) |
| | Power | <1%+60W | | <1%+120W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | | |
| Line Regulation | Voltage | <0.02%Umax(150mV) | | |
| | Current | <0.05%Imax(10.5mA) | <0.05%Imax(21mA) | <0.05%Imax(31.5mA) |
| | Power | <0.05%Pmax | | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(375mV) @Rated Voltage, <0.1%Umax(750mV) @Rated Current | | |
| | Current | <0.15%Imax(31.5mA) | <0.15%Imax(63mA) | <0.15%Imax(94.5mA) |
| | Power | <0.75%Pmax | | |
| Rise Time | Voltage <15ms (No Load) <80ms (Full Load) | | | |
| Drop Time | Voltage <600ms (No Load) <20ms (Full Load) | | | |
| Transient Response Time ^[3] | Voltage ≤2ms/7.5V | | | |
| Display Resolution | Voltage | 0.01V | | |
| | Current | 0.001A | | |
| | Power | 1W | | |
| | Internal Resistance | 0.001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(750mV) | | |
| | Current | <0.2%Imax(42mA) | <0.2%Imax(84mA) | <0.2%Imax(126mA) |
| | Power | <0.5%Pmax | | |
| | Internal Resistance | <0.4%Rmax | | |
| Ripple ^[4] | Voltage | <900mVpp, <225mVrms | <1000mVpp, <250mVrms | <1000mVpp, <250mVrms |
| | Current | <11mArms | <22mArms | <33mArms |
| Remote Compensation | Voltage 3%Umax(22.5V) | | | |
| Sink Function | | | | |
| Input Voltage | 0~750V | | | |
| Input Current | 0~10A | 0~15A | 0~25A | |
| Input Power | 0~325W | 0~650W | 0~975W | |
| Min. Operating Voltage | 8V@3.7A | | | |
| CC Resolution | 1mA | | | |

| MODEL | SP750VDC6000W | SP750VDC12000W | SP750VDC18000W |
|-----------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(20mA) | <0.2%Imax(40mA) | <0.2%Imax(60mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(750mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(1625mW) | <0.5%Pmax(3250mW) | <0.5%Pmax(4875mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Master/Slave Control | | | |
| Series Output | MAX 2 units | | |
| Parallel Output | MAX 16 units | | |
| Environmental | | | |
| Operating Temperature | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 45dB Idle; 71dB Max; | 45dB Idle; 73dB Max; | 45dB Idle; 75dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | | |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | | |
| Unit Weight | 27kg | 38kg | 50kg |
| Shipping Weight | 37kg | 48kg | 60kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | SP750VDC24000W | SP750VDC30000W | SP750VDC36000W | |
|--|-----------------------------------|---|------------------------------------|---------------------------------|
| Input | | | | |
| Voltage ^[1] | 200~253VAC 340~460VAC | | | |
| Current ^[1] | 3P208 L1-60A, L2,L3-103A | 3P208 L1-125A,L2,L3-103A | 3P208 L1,L2,L3-125A | |
| | 3P400 L1-30A, L2,L3-49A | 3P400 L1-63A,L2,L3-49A | 3P400 L1,L2,L3-63A | |
| Frequency | 45~65Hz | | | |
| Connection | 3ph, PE | | | |
| Fuse (Internal) ^[1] | T50A*2pcs | | | |
| | T30A*2pcs | | | |
| Power Factor | >0.99 | | | |
| Input Power | 28.8kVAmax | 36kVAmax | 43.2kVAmax | |
| Efficiency ^[1] | 3P208 ~92.5%@750V, 3P208 ~91%@84A | 3P208 ~92.5%@750V, 3P208 ~91%@105A | 3P208 ~92.5%@750V, 3P208 ~91%@126A | |
| | 3P400 ~92.7%@750V, 3P400 ~92%@84A | 3P400 ~92.7%@750V, 3P400 ~92%@105A | 3P400 ~92.7%@750V, 3P400 ~92%@126A | |
| Output | | | | |
| Voltage Range | 0~750V | | | |
| Current Range | 0~84A | 0~105A | 0~126A | |
| Power Range | 0~24000W | 0~30000W | 0~36000W | |
| Max. Setup Range | Voltage | 0~787.5V(0~105%) | | |
| | Current | 0~88.2A(0~105%) | 0~110.25A(0~105%) | 0~132.3A(0~105%) |
| | Power | 0~26400W(0~105%) | 0~31500W(0~105%) | 0~37800W(0~105%) |
| | Internal Resistance | 0~268Ω | 0~215Ω | 0~179Ω |
| Accuracy | Voltage | <0.1%Umax(750mV) | | |
| | Current | <0.2% I _{max} (168mA) | <0.2% I _{max} (210mA) | <0.2% I _{max} (252mA) |
| | Power | <1%+180W | <1%+240W | <1%+360W |
| | Internal Resistance | R<2% R _{max} , I<0.3% I _{max} | | |
| Line Regulation | Voltage | <0.02%Umax(150mV) | | |
| | Current | <0.05% I _{max} (42mA) | <0.05% I _{max} (52.5mA) | <0.05% I _{max} (63mA) |
| | Power | <0.05%P _{max} | | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(375mV) @Rated Voltage, <0.1%Umax(750mV) @Rated Current | | |
| | Current | <0.15% I _{max} (126mA) | <0.15% I _{max} (157.5mA) | <0.15% I _{max} (189mA) |
| | Power | <0.75%P _{max} | | |
| Rise Time | Voltage | <15ms (No Load) <80ms (Full Load) | | |
| Drop Time | Voltage | <600ms (No Load) <20ms (Full Load) | | |
| Transient Response Time ^[3] | Voltage | ≤2ms/7.5V | | |
| Display Resolution | Voltage | 0.01V | | |
| | Current | 0.001A | | |
| | Power | 1W | | |
| | Internal Resistance | 0.001Ω | | |
| Measurement Accuracy | Voltage | <0.1%Umax(750mV) | | |
| | Current | <0.2% I _{max} (168mA) | <0.2% I _{max} (210mA) | <0.2% I _{max} (252mA) |
| | Power | <0.5%P _{max} | | |
| | Internal Resistance | <0.4%R _{max} | | |
| Ripple ^[4] | Voltage | <1000mVpp, <250mVrms | | |
| | Current | <44mArms | <55mArms | <66mArms |
| Remote Compensation | Voltage | 3%Umax(22.5V) | | |
| Sink Function | | | | |
| Input Voltage | 0~750V | | | |
| Input Current | 0~35A | 0~40A | 0~45A | |
| Input Power | 0~1200W | 0~1500W | 0~1800W | |
| Min. Operating Voltage | 8V@3.7A | | | |
| CC Resolution | 1mA | | | |

| MODEL | SP750VDC24000W | SP750VDC30000W | SP750VDC36000W |
|-----------------------------------|--|-------------------------|-------------------------|
| CC Accuracy | <0.2%Imax(60mA) | <0.2%Imax(75mA) | <0.2%Imax(90mA) |
| CV Resolution | <4mV | | |
| CV Accuracy | <0.1%Umax(750mV) | | |
| CP Resolution | 0.5W | | |
| CP Accuracy | <0.5%Pmax(6000mW) | <0.5%Pmax(7500mW) | <0.5%Pmax(9000mW) |
| Slew Rate | 0.01~2.5A/us | | |
| Dynamic Mode | 20ms~50s | | |
| General | | | |
| Graphic Display | 4.3" Color touch LCD | | |
| Operation Key Feature | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | | |
| Rack Mount Handles | Yes | | |
| FAN | Temperature control | | |
| Protection | OCP, OVP, OPP, OTP, HARD FAIL | | |
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | | |
| Command Response Time | <3ms | | |
| Analog Interface(Optional) | | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | | |
| Accuracy U/I/P/R | <0.2% F.S | | |
| Actual Output U/I | <0.2% | | |
| Control Signals | DC ON/OFF, External control Enable/Disable | | |
| Status Signals | CV, OVP, OT | | |
| Sampling Rate of Input & Output | 45Hz | | |
| Galvanic Isolation to the Device | 1.5kVDC | | |
| Master/Slave Control | | | |
| Series Output | MAX 2 units | | |
| Parallel Output | MAX 16 units | | |
| Environmental | | | |
| Operating Temperature | 0~40°C | | |
| Storage Temperature | -20~70°C | | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | | |
| Altitude | <2000m@40°C | | |
| Fan Noise | 48dB Idle; 77dB Max; | 48dB Idle; 80dB Max; | 48dB Idle; 82dB Max; |
| Mechanical | | | |
| Dimensions (WxHxD) | 423.0x265.0x740.0 mm | | |
| Package Dimensions (WxHxD) | 549.0x531.0x946.0 mm | | |
| Unit Weight | 75kg | 86kg | 97kg |
| Shipping Weight | 101kg | 112kg | 113kg |
| Miscellaneous | | | |
| Over Voltage Category | II | | |
| Protection Class | I | | |
| Pollution Degree | 2 | | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP1000VDC12000W | SP1000VDC24000W |
|--|---------------------|--|------------------------------------|
| Input | | | |
| Voltage ^[1] | | 187~253VAC | 200~253VAC |
| | | 340~460VAC | |
| Current ^[1] | | 3P208 L1-60A, L2,L3-38A | 3P208 L1-60A, L2,L3-103A |
| | | 3P400 L1-30A, L2,L3-19A | 3P400 L1-30A, L2,L3-49A |
| Frequency | | 45~65Hz | |
| Connection | | 3ph, PE | |
| Fuse (Internal) ^[1] | | T50A*2pcs | |
| | | T30A*2pcs | |
| Power Factor | | >0.99 | |
| Input Power | | 14.5kVAmax | 29kVAmax |
| Efficiency ^[1] | | 3P208 ~92%@1000V, 3P208 ~90%@32A | 3P208 ~92%@1000V, 3P208 ~90%@64A |
| | | 3P400 ~93.5%@1000V, 3P400 ~92%@32A | 3P400 ~93.5%@1000V, 3P400 ~92%@64A |
| Output | | | |
| Voltage Range | | 0~1000V | |
| Current Range | | 0~32A | 0~64A |
| Power Range | | 0~12000W | 0~24000W |
| Max. Setup Range | Voltage | 0~1050V(0~105%) | |
| | Current | 0~33.6A(0~105%) | 0~67.2A(0~105%) |
| | Power | 0~12600W(0~105%) | 0~26400W(0~105%) |
| | Internal Resistance | 0~937.5Ω | 0~468.75Ω |
| Accuracy | Voltage | <0.1%Umax(1000mV) | |
| | Current | <0.2%Imax(64mA) | <0.2%Imax(128mA) |
| | Power | <1%+90W | <1%+180W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax | |
| Line Regulation | Voltage | <0.02%Umax(200mV) | |
| | Current | <0.05%Imax(16mA) | <0.05%Imax(32mA) |
| | Power | <0.05%Pmax | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(500mV) @Rated Voltage, <0.08%Umax(800mV) @Rated Current | |
| | Current | <0.15%Imax(48mA) | <0.15%Imax(96mA) |
| | Power | <0.75%Pmax | |
| Rise Time | Voltage | <15ms (No Load) <80ms (Full Load) | |
| Drop Time | Voltage | <1700ms (No Load) <15ms (Full Load) | |
| Transient Response Time ^[3] | Voltage | ≤2ms/10V | |
| Display Resolution | Voltage | 0.01V | |
| | Current | 0.001A | |
| | Power | 1W | |
| | Internal Resistance | 0.001Ω | |
| Measurement Accuracy | Voltage | <0.1%Umax(1V) | |
| | Current | <0.2%Imax(64mA) | <0.2%Imax(128mA) |
| | Power | <0.5%Pmax | |
| | Internal Resistance | <0.4%Rmax | |
| Ripple ^[4] | Voltage | <1500mVpp, <320mVrms | |
| | Current | <22mArms | <26mArms |
| Remote Compensation | Voltage | 3%Umax(30V) | |
| General | | | |
| Graphic Display | | 4.3" Color touch LCD | |
| Operation Key Feature | | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | |
| Rack Mount Handles | | Yes | |
| FAN | | Temperature control | |
| Protection | | OCP, OVP, OPP, OTP, HARD FAIL | |

| MODEL | SP1000VDC12000W | SP1000VDC24000W |
|-----------------------------------|--|-------------------------|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | |
| Command Response Time | <3ms | |
| Analog Interface(Optional) | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | |
| Accuracy U//P/R | <0.2% F.S | |
| Actual Output U/I | <0.2% | |
| Control Signals | DC ON/OFF, External control Enable/Disable | |
| Status Signals | CV, OVP, OT | |
| Sampling Rate of Input & Output | 45Hz | |
| Galvanic Isolation to the Device | 1.5kVDC | |
| Master/Slave Control | | |
| Series Output | Not supported | |
| Parallel Output | MAX 16 units | |
| Environmental | | |
| Operating Temperature | 0~40°C | |
| Storage Temperature | -20~70°C | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | |
| Altitude | <2000m@45°C | |
| Fan Noise | 45dB Idle; 73dB Max; | 48dB Idle; 80dB Max; |
| Mechanical | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | 423.0x265.0x740.0 mm |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | 549.0x531.0x946.0 mm |
| Unit Weight | 38kg | 75kg |
| Shipping Weight | 48kg | 101kg |
| Miscellaneous | | |
| Over Voltage Category | II | |
| Protection Class | I | |
| Pollution Degree | 2 | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP1500VDC12000W | SP1500VDC18000W |
|--|---------------------|--|--|
| Input | | | |
| Voltage ^[1] | | 187~253VAC 340~460VAC | |
| Current ^[1] | | 3P208 L1-60A, L2,L3-38A | 3P208 L1,L2,L3-60A |
| | | 3P400 L1-30A, L2,L3-19A | 3P400 L1,L2,L3-30A |
| Frequency | | 45~65Hz | |
| Connection | | 3ph, PE | |
| Fuse (Internal) ^[1] | | T50A*2pcs | |
| | | T25A*2pcs | T30A*2pcs |
| Power Factor | | >0.99 | |
| Input Power | | 14.5kVAmax | 21.75kVAmax |
| Efficiency ^[1] | | 3P208 ~92%@1500V, 3P208 ~90.5%@21A | |
| | | 3P400 ~92.5%@1500V, 3P400 ~91.5%@21A | 3P208 ~92%@1500V, 3P208 ~90%@32A 3P400 ~93.5%@1500V, 3P400 ~92%@32A |
| Output | | | |
| Voltage Range | | 0~1500V | |
| Current Range | | 0~21A | 0~32A |
| Power Range | | 0~12000W | 0~18000W |
| Max. Setup Range | Voltage | 0~1575V(0~105%) | |
| | Current | 0~22.05A(0~105%) | 0~33.6A(0~105%) |
| | Power | 0~12600W(0~105%) | 0~18900W(0~105%) |
| | Internal Resistance | 0~2142Ω | 0~1406.25Ω |
| Accuracy | Voltage | <0.1%Umax(1.5V) | |
| | Current | <0.2%Imax(42mA) | <0.2%Imax(64mA) |
| | Power | <1%+90W | |
| | Internal Resistance | R<2% Rmax, l<0.3% lmax | |
| Line Regulation | Voltage | <0.02%Umax(300mV) | |
| | Current | <0.05%Imax(10.5mA) | <0.05%Imax(16mA) |
| | Power | <0.05%Pmax | |
| Load Regulation ^[2] | Voltage | <0.05%Umax(750mV) @Rated Voltage, <0.08%Umax(1200mV) @Rated Current | |
| | Current | <0.15%Imax(31.5mA) | <0.15%Imax(48mA) |
| | Power | <0.75%Pmax | |
| Rise Time | Voltage | <15ms (No Load) <80ms (Full Load) | |
| Drop Time | Voltage | <700ms (No Load) <20ms (Full Load) | |
| Transient Response Time ^[3] | Voltage | ≤2ms/15V | |
| Display Resolution | Voltage | 0.01V | |
| | Current | 0.001A | |
| | Power | 1W | 0.1W |
| | Internal Resistance | 0.001Ω | |
| Measurement Accuracy | Voltage | <0.1%Umax(1.5V) | |
| | Current | <0.2%Imax(42mA) | <0.2%Imax(64mA) |
| | Power | <0.5%Pmax | |
| | Internal Resistance | <0.4%Rmax | |
| Ripple ^[4] | Voltage | <2500mVpp, <600mVrms | <1950mVpp, <650mVrms |
| | Current | <11mArms | <22mArms |
| Remote Compensation | Voltage | 3%Umax(45V) | |
| General | | | |
| Graphic Display | | 4.3" Color touch LCD | |
| Operation Key Feature | | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware | |
| Rack Mount Handles | | Yes | |
| FAN | | Temperature control | |
| Protection | | OCP, OVP, OPP, OTP, HARD FAIL | |

| MODEL | SP1500VDC12000W | SP1500VDC18000W |
|-----------------------------------|--|-------------------------|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) | |
| Command Response Time | <3ms | |
| Analog Interface(Optional) | | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power | |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. | |
| Accuracy U//P/R | <0.2% F.S | |
| Actual Output U/I | <0.2% | |
| Control Signals | DC ON/OFF, External control Enable/Disable | |
| Status Signals | CV, OVP, OT | |
| Sampling Rate of Input & Output | 45Hz | |
| Galvanic Isolation to the Device | 1.5kVDC | |
| Master/Slave Control | | |
| Series Output | Not supported | |
| Parallel Output | MAX 16 units | |
| Environmental | | |
| Operating Temperature | 0~40°C | |
| Storage Temperature | -20~70°C | |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) | |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C | |
| Altitude | <2000m@40°C | |
| Fan Noise | 45dB Idle; 73dB Max; | 45dB Idle; 75dB Max; |
| Mechanical | | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm | |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm | |
| Unit Weight | 38kg | 50kg |
| Shipping Weight | 48kg | 60kg |
| Miscellaneous | | |
| Over Voltage Category | II | |
| Protection Class | I | |
| Pollution Degree | 2 | |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC | |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP1500VDC24000W |
|--|---------------------|--|
| Input | | |
| Voltage ^[1] | | 200~253VAC |
| | | 340~460VAC |
| Current ^[1] | | 3P208 L1-60A, L2,L3-103A |
| | | 3P400 L1-30A, L2,L3-49A |
| Frequency | | 45~65Hz |
| Connection | | 3ph, PE |
| Fuse (Internal) ^[1] | | T50A*2pcs |
| | | T25A*2pcs |
| Power Factor | | >0.99 |
| Input Power | | 29kVAmax |
| Efficiency ^[1] | | 3P208 ~92%@1500V, 3P208 ~90.5%@42A |
| | | 3P400 ~92.5%@1500V, 3P400 ~91.5%@42A |
| Output | | |
| Voltage Range | | 0~1500V |
| Current Range | | 0~42A |
| Power Range | | 0~24000W |
| Max. Setup Range | Voltage | 0~1575V(0~105%) |
| | Current | 0~44.1A(0~105%) |
| | Power | 0~26400W(0-105%) |
| | Internal Resistance | 0~1071Ω |
| Accuracy | Voltage | <0.1%Umax(1.5V) |
| | Current | <0.2%Imax(84mA) |
| | Power | <1%+180W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax |
| Line Regulation | Voltage | <0.02%Umax(300mV) |
| | Current | <0.05%Imax(21mA) |
| | Power | <0.05%Pmax |
| Load Regulation ^[2] | Voltage | <0.05%Umax(750mV) @Rated Voltage, <0.08%Umax(1200mV) @Rated Current |
| | Current | <0.15%Imax(63mA) |
| | Power | <0.75%Pmax |
| Rise Time | Voltage | <15ms (No Load) <80ms (Full Load) |
| Drop Time | Voltage | <700ms (No Load) <20ms (Full Load) |
| Transient Response Time ^[3] | Voltage | ≤2ms/15V |
| Display Resolution | Voltage | 0.01V |
| | Current | 0.001A |
| | Power | 1W |
| | Internal Resistance | 0.001Ω |
| Measurement Accuracy | Voltage | <0.1%Umax(1.5V) |
| | Current | <0.2%Imax(84mA) |
| | Power | <0.5%Pmax |
| | Internal Resistance | <0.4%Rmax |
| Ripple ^[4] | Voltage | <2500mVpp, <600mVrms |
| | Current | <22mArms |
| Remote Compensation | Voltage | 3%Umax(45V) |
| General | | |
| Graphic Display | | 4.3" Color touch LCD |
| Operation Key Feature | | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware |
| Rack Mount Handles | | Yes |
| FAN | | Temperature control |
| Protection | | OCP, OVP, OPP, OTP, HARD FAIL |

| MODEL | SP1500VDC24000W |
|-----------------------------------|--|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) |
| Command Response Time | <3ms |
| Analog Interface(Optional) | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. |
| Accuracy U//P/R | <0.2% F.S |
| Actual Output U/I | <0.2% |
| Control Signals | DC ON/OFF, External control Enable/Disable |
| Status Signals | CV, OVP, OT |
| Sampling Rate of Input & Output | 45Hz |
| Galvanic Isolation to the Device | 1.5kVDC |
| Master/Slave Control | |
| Series Output | Not supported |
| Parallel Output | MAX 16 units |
| Environmental | |
| Operating Temperature | 0~40°C |
| Storage Temperature | -20~70°C |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C |
| Altitude | <2000m@40°C |
| Fan Noise | 48dB Idle; 80dB Max; |
| Mechanical | |
| Dimensions (WxHxD) | 423.0x265.0x740.0 mm |
| Package Dimensions (WxHxD) | 549.0x531.0x946.0 mm |
| Unit Weight | 75kg |
| Shipping Weight | 101kg |
| Miscellaneous | |
| Over Voltage Category | II |
| Protection Class | I |
| Pollution Degree | 2 |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC |

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 10% to 90% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

High Power DC Power Supply

| MODEL | | SP2250VDC18000W |
|--|---------------------|--|
| Input | | |
| Voltage ^[1] | | 187~253VAC |
| | | 340~460VAC |
| Current ^[1] | | 3P208 L1,L2,L3-60A |
| | | 3P400 L1,L2,L3-30A |
| Frequency | | 45~65Hz |
| Connection | | 3ph, PE |
| Fuse (Internal) ^[1] | | T50A*2pcs |
| | | T25A*2pcs |
| Power Factor | | >0.99 |
| Input Power | | 21.75kVAmax |
| Efficiency ^[1] | | 3P208 ~92%@2250V, 3P208 ~90.5%@21A |
| | | 3P400 ~92.5%@2250V, 3P400 ~91.5%@21A |
| Output | | |
| Voltage Range | | 2250V |
| Current Range | | 0~21A |
| Power Range | | 0~18000W |
| Max. Setup Range | Voltage | 0~2362.5V(0-105%) |
| | Current | 0~22.05A(0-105%) |
| | Power | 0~18900W(0~105%) |
| | Internal Resistance | 0~3214Ω |
| Accuracy | Voltage | <0.1% Umax/(2.25V) |
| | Current | <0.2% Imax(42mA) |
| | Power | <0.5%+90W |
| | Internal Resistance | R<2% Rmax, I<0.3% Imax |
| Line Regulation | Voltage | <0.02% Umax(675mV) |
| | Current | <0.05% Imax(10.5mA) |
| | Power | <0.05%Pmax |
| Load Regulation ^[2] | Voltage | <0.05%Umax(1125mV) @Rated Voltage, <0.08%Umax(1800mV) @Rated Current |
| | Current | <0.15%Imax(31.5mA) |
| | Power | <0.75%Pmax |
| Rise Time | Voltage | <15ms (No Load) <85ms (Full Load) |
| Drop Time | Voltage | <800ms (No Load) <20ms (Full Load) |
| Transient Response Time ^[3] | Voltage | ≤3ms/22.5V |
| Display Resolution | Voltage | 0.01V |
| | Current | 0.001A |
| | Power | 0.1W |
| | Internal Resistance | 0.001Ω |
| Measurement Accuracy | Voltage | <0.1%Umax(2.25V) |
| | Current | <0.2%Imax(42mA) |
| | Power | <0.5%Pmax |
| | Internal Resistance | <0.4%Rmax |
| Ripple ^[4] | Voltage | <3200mVpp, <750mVrms |
| | Current | <11mArms |
| Remote Compensation | Voltage | 3%Umax(67.5V) |
| General | | |
| Graphic Display | | 4.3" Color touch LCD |
| Operation Key Feature | | Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware |
| Rack Mount Handles | | Yes |
| FAN | | Temperature control |
| Protection | | OCP, OVP, OPP, OTP, HARD FAIL |

| MODEL | SP2250VDC18000W |
|-----------------------------------|--|
| Interface | RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional) |
| Command Response Time | <3ms |
| Analog Interface(Optional) | |
| Set Value Inputs | Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power |
| Actual Value Output | Analog output 0~5V/0~10V to monitor the voltage and current. |
| Accuracy U//P/R | <0.2% F.S |
| Actual Output U/I | <0.2% |
| Control Signals | DC ON/OFF, External control Enable/Disable |
| Status Signals | CV, OVP, OT |
| Sampling Rate of Input & Output | 45Hz |
| Galvanic Isolation to the Device | 1.5kVDC |
| Master/Slave Control | |
| Series Output | Not supported |
| Parallel Output | MAX 16 units |
| Environmental | |
| Operating Temperature | 0~40°C |
| Storage Temperature | -20~70°C |
| Temperature Coefficient | 100ppm/°C(voltage), 150ppm/°C(current) |
| Relative Humidity | <95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C |
| Altitude | <2000m@40°C |
| Fan Noise | 45dB Idle; 75dB Max; |
| Mechanical | |
| Dimensions (WxHxD) | 423.0x133.0x700.0 mm |
| Package Dimensions (WxHxD) | 665.0x347.0x1009.0 mm |
| Unit Weight | 50kg |
| Shipping Weight | 60kg |
| Miscellaneous | |
| Over Voltage Category | II |
| Protection Class | I |
| Pollution Degree | 2 |
| Insulation | AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC |

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[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

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