

SP300VAC3000W



Specification

| MODEL | SP300VAC3000W Advanced | SP300VAC3000W Professional |
|--|---|-------------------------------|
| INPUT | | |
| Voltage | 190~265VAC | |
| Frequency | 47~63Hz | |
| Phase | 1 Phase, 2Wire+Groud | |
| Max. Current | 20A | |
| Power Factor at 220VAC Input , Full Load | ≥0.98 Active PFC | |
| Efficiency | >86% (Peak) >85% at 220VAC,50Hz input/220VAC,50Hz output,Full Load | |
| OUTPUT | | |
| AC Power | 3000VA | |
| Max. Current (r.m.s) | 0~150V(L) | 27.6A |
| | 0~300V(H) | 13.8A |
| Max. Current (Peak) | 0~150V(L) | 165.6A |
| | 0~300V(H) | 82.8A |
| Phase | 1 Phase | |
| Total Harmonic Distortion (THD) | <0.5% (Resistive Load) at 15.0~70.0Hz and output voltage within the 80~140VAC at Low Range or the 160~280VAC at High Range <1% (Resistive Load) at 70.1~500Hz and output voltage within the 80~140VAC at Low Range or the 160~280VAC at High Range <1% (Resistive Load) at 501~1000Hz and output voltage within the 100~140VAC at Low Range or the 160~280VAC at High Range <2% (Resistive Load) at 1001~1200Hz and output voltage within the 100~140VAC at Low Range or the 160~280VAC at High Range Note: 1001~1200Hz only available to Professional Version Models | |
| Crest Factor(CF) | ≤6 | |
| Load Regulation | ±0.1V | |
| Line Regulation | ±(1% of output + 1V) | |
| Voltage(AC) | Range | 0~300VAC, 150V/300V/Auto Mode |
| | Resolution | 0.1V |
| | Accuracy | 0.2% of setting +0.2%F.S. |
| Phase Angle (Starting /Ending) | Range | 0~359.9° |
| | Resolution | 0.1° |
| | Accuracy | ±1° @45~65Hz |



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| MODEL | SP300VAC3000W Advanced | SP300VAC3000W Professional | |
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| Voltage(DC) | Range | 0~424VDC | |
| | Resolution | 0.1V | |
| | Accuracy | 0.2% of setting +0.2%F.S. | |
| | Max.Power | 3000W | |
| | Max Current (L/H Range) | L | 19.6A |
| | | H | 9.8A |
| Ripple & Noise(r.m.s) | L | <700mVrms @Bandwidth 20Hz to 1MHz | |
| | H | <1100mVrms @Bandwidth 20Hz to 1MHz | |
| Ripple & Noise(Peak) | L | <4000mVp-p @Bandwidth 20Hz to 1MHz | |
| | H | <4000mVp-p @Bandwidth 20Hz to 1MHz | |
| Current OC Fold Mode | Resolution | 0.01A | |
| | Accuracy | 2.0% of setting +0.1%F.S. | |
| | Response Time | <1400ms | |
| Frequency | Range | 15~1000Hz Full Range ADJ | |
| | Resolution | 0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz | |
| | Accuracy | 0.03% of setting | |
| Programmable Output Impedance | Range | Not Support | |
| | | 0Ω +200μH~1Ω +1mH | |
| Harmonic & Inter-harmonics Simulation | Range | Not Support | |
| | | 2400Hz | |
| MEASUREMENT | | | |
| Voltage | Range | AC 0~300VAC DC 0~424VDC | |
| | Resolution | 0.1V | |
| | Accuracy | 0.2% of setting +0.2%F.S. | |
| Frequency | Range | 15~1000Hz | |
| | Resolution | 0.1Hz at 15.0~99.9Hz, 1Hz at 100~1000Hz | |
| | Accuracy | 0.1% of setting | |
| Current (r.m.s) | Range | H 0.2A~27.6A | |
| | | M 0.15A~20A | |
| | | L 0.1A~5A | |
| | | mA 0.02A~1.5A | |
| | Resolution | 0.01A | |
| Accuracy | H/M | 0.4%+0.3%F.S. | |
| | L/mA | 0.4%+1.0%F.S. | |

- OC
- OVP
- OPP
- TC
- SC
- SHORT
- RS232
- RS485
- LAN
- GPIB
- CE
- RoHS

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| Current (Peak) | Range | 0A~168.6A | |
| | Resolution | 0.01A | |
| | Accuracy | H/M 0.4%+0.6%F.S. L/mA 0.4%+1.0%F.S. | |
| Power | Range | 0~3060W | |
| | Resolution | 0.1W | |
| | Accuracy | 0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V | |
| Power Apparent (VA) | Range | 0-3060VA | |
| | Resolution | 0.1VA | |
| | Accuracy | Voltage*Irms, Calculated value | |
| Power Resistive (VAR) | Range | 0~3060VAR | |
| | Resolution | 0.1VAR | |
| | Accuracy | $\sqrt{(VA)^2 - (W)^2}$, Calculated value | |
| Power Factor (PF) | Range | 0.00-1.00 | |
| | Resolution | 0.01 | |
| | Accuracy | W/VA, Calculated value | |
| Harmonic | Range | Not Support | 2~40 orders |
| EXTRA FUNCTION | | | |
| Slew Rate | Range | AC Voltage | 0.001~1200.000V/ms and Disable |
| | | DC Voltage | 0.001~1000.000V/ms and Disable |
| | | Frequency | 0.001~1600.000Hz/ms and Disable |
| Remote Sense | Range | 5V(rms), Max. Total power less than rated power | |
| Transient Generator (only for 15~70Hz) | Range | Trans-Start : 0.0~66.5ms @15Hz, Resolution : 0.1ms Trans-Volt : -212V~+212V(L), -424V~+424V(H), Resolution : 0.1V Trans-Time : 0.0~66.5ms @15Hz, Resolution : 0.1ms Trans-Count : 0~9999, Constant | |
| Calibration | Firmware-based calibration through the digital interface or front panel display | | |
| Test Function | Yes | | |
| Parallel Output for 1 Phase | Yes, 4 Units Max. (Option: Remote I/O&Parallel, Multiphase Link Card) | | |
| Series Output for 1 Phase | Yes, 2 Units Max. (Option: Remote I/O&Parallel, Multiphase Link Card) | | |
| Link Output for 3 Phase | Yes (Option: Remote I/O&Parallel, Multiphase Link Card) | | |
| GENERAL | | | |
| Graphic Display | 5.6" Color touch LCD | | |
| Operation Key Feature | Soft key, Numeric key, Rotary Knob, Support USB disk | | |



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| MODEL | | SP300VAC3000W Advanced | SP300VAC3000W Professional |
|---|--|------------------------|----------------------------|
| Rack mount Handles | Yes | | |
| FAN | Temperature Control | | |
| Protection Circuits | OCP, OVP, OPP, OTP, RCP, PRI_LVFP, PRI_OVP, PRI_OTP, PRI_OCP, USB_OCP | | |
| Interface | USB, RS485, RS232, LAN(Standard); GPIB(Optional) | | |
| REMOTE CONTROL INPUT/OUTPUT SIGNAL CHARACTERISTICS(OPTION) | | | |
| Remote Input Signal | Signal input for external trigger for execution of programmed value | | |
| | Signal : ON/OFF, RESET, KEEP OFF, Recall program memory 1 through 7 | | |
| Remote Output Signal | Signal output indicating that a test mode is present | | |
| | Signal : PASS, FAIL, TEST-IN-PROCESS | | |
| External Signal -Waveform input | Signal input for output voltage waveform programming by external analog reference via BNC type. Between the sync signal and the output wave will be 0.5ms time difference | | |
| ENVIRONMENTAL | | | |
| Operating Temperature | 0°C to 40°C | | |
| Storage Temperature | -40°C to 85°C | | |
| Altitude | 2000m | | |
| Relative Humidity | 5%~95%, non-condensing | | |
| Temperature Coefficient | 100ppm/°C at Voltage, 300ppm/°C at Current, 100ppm/°C at Frequency | | |
| MECHANICAL | | | |
| Dimensions(W*H*D) | 483.0*177.0*520.0 mm/19.0*7.0*20.5 inch | | |
| Package Dimensions (W*H*D) | 597.0*321.0*694.0 mm/23.5*12.6*27.3 inch | | |
| Unit Net Weight | 28.8kg/63.5lbs | | |
| Accessories Weight | 0.4kg/0.9lbs | | |
| Net Weight | 31.8kg/70.1lbs | | |
| REGULATORY COMPLIANCE | | | |
| EMC | CE marked for EMC Directive 2014/ 30/EU /EN61326-1: 2013 Class A for emissions and immunity standard as required for EU CE Mark. FCC Verification of conformity for CFR 47 Part 15 of the FCC Rules. | | |
| Safety | CE marked for LVD Directive 2014/ 35/EU /EN61010-1-third edition as required for EU CE Mark. | | |
| CE Mark | Installation Overvoltage Category II, Pollution Degree 2, Class II equipment, indoor use only. | | |
| UL Mark | CSA NRTL certified for US and Canada to CAN/CSA-22.2 No.61010-1-12, UL 61010-1 Third Edition. | | |
| Isolation Voltage | 3000VAC, input to output, 1500VAC, input to chassis | | |
| RoHS | Meet to EU Directive 2011/65/EU for restriction of hazardous substances in Electrical and Electronic Equipment | | |

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AP300VAC3000W Advanced Professional