



High Efficiency

High Precision

High Stability







	Output	Model	Size	Standard Interface	Optional Information	Certificates	
Voltage	Power	Output Mode	Wibuei Size		Standard Interrace	Optional information	Certificates
150V/300V	1800W	Single/Three Phase	SPST300VAC1800W-2-9	9U 1	RS232/RS485/USB	(1)	CE
150V/300V	3000W	Single/Three Phase	SPST300VAC3000W-2-9	9U <b>1</b>	RS232/RS485/USB	(1)	CE
150V/300V	4500W	Single/Three Phase	SPST300VAC4500W-2-9	9U <b>1</b>	RS232/RS485/USB	(1)	CE
150V/300V	6000W	Single/Three Phase	SPST300VAC6000W-3-17	17U <b>2</b>	RS232/RS485/USB/LAN	(2)	CE
150V/300V	9000W	Single/Three Phase	SPST300VAC9000W-4-17	17U <b>3</b>	RS232/RS485/USB/LAN	(2)	CE
150V/300V	12000W	Single/Three Phase	SPST300VAC12000W-4-17	17U <b>3</b>	RS232/RS485/USB/LAN	(2)	CE
150V/300V	15000W	Single/Three Phase	SPST300VAC15000W-4-17	17U <b>3</b>	RS232/RS485/USB/LAN	(2)	CE

<sup>\*</sup>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.

The output of the three phase power supply can be connected in two ways, including Wye connection and Delta connection. In the Delta connection mode, the output voltage can reach 520V.

### **Dimensions & Weight**







2 560.0x754.0x700.0 mm & 134kg



**3** 560.0x754.0x700.0mm & 157kg

#### **Optional Information**

#### (1) LAN & GPIB interface card & cables



#### (2) GPIB interface card & cable



#### 产品主要特点

- 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.

#### **Panel Introduction**

#### 0.6 - 1.5kVA

- 1 Power Switch (Up), USB Interface (Down)
- 2 Color Touch Screen
- 3 Multifunctional Keys
- 4 Numeric and Functional Keys

#### Front Panel Introduction



### 2 - 5kVA

- Power Switch (Up), USB Interface (Down)
- 2 Color Touch Screen
- 3 Multifunctional Keys
- 4 Numeric and Functional Keys

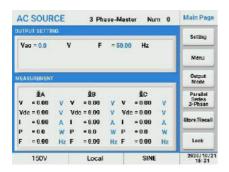
#### Front Panel Introduction

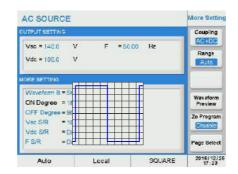


#### **Function Introduction**

### **Graphical User Interface**

The large color touch screen provides simple and fast operation for customers, real-time update of display output data and power status, and graphical display makes it more intuitive.

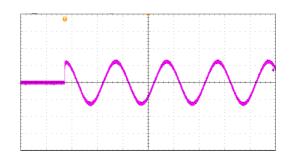




### Settable ON/OFF Phase Angle of Output Waveform

This series of AC power supply can set the ON phase and OFF phase of sinusoidal output waveform, suitable for the output test of switching power supply. Set the ON angle to 90 degrees for surge current testing, the power supply will show the measured value of surge current. Users can set when start to measure the surge current and the duration of the measurement.

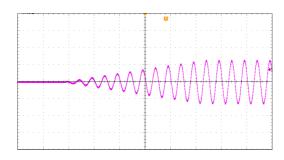




### Slew Rate Setting For Voltage and Frequency

This series AC power supply let users set the slew rate of voltage and frequency, in such application in order to reduce the inrush current during motor or compressor startup.

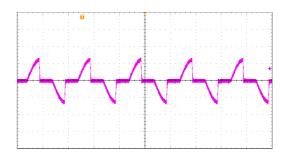




### Triac Dimmer Function

This series AC power supply built-in triac dimmer function, which is used to do dimming and speed regulating test for lamp or electric motor to ensure the products work well both in R&D and production testing.

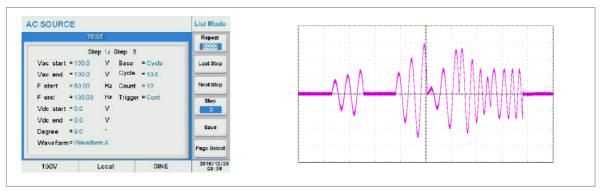




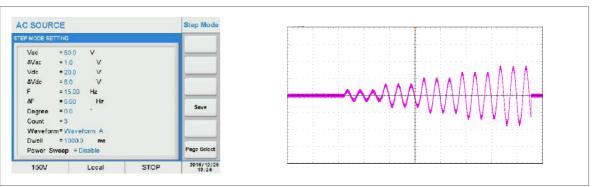
### Power Line Disturbance Simulation

This series AC power supply provides powerful function to simulate all kinds of power line disturbance conditions such as cycle dropout, transient spike, brown out and etc. This feature make this series AC power supply ideal for R&D labs, universities and certification labs.

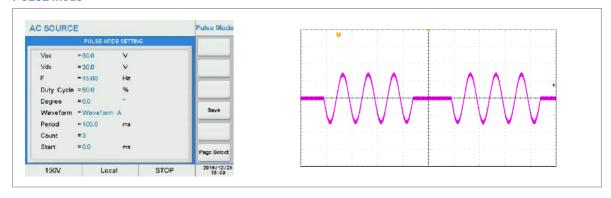
#### **LIST Mode**



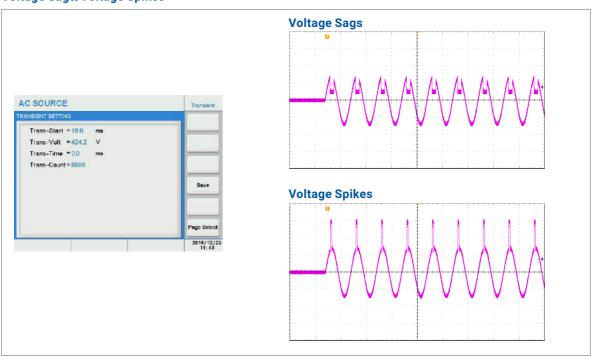
#### **STEP Mode**



#### **PULSE Mode**



#### **Voltage Sags/Voltage Spikes**



### File Save and Recall Via The USB Interface

The user can save the screenshot via the USB interface in the front panel. The user can import a CSV file via the USB interface to generate waveform output.



1	A	В	C	D	Е	F	G	Н	1	3	K	L	M	N	0	P	Q	R	S
1 1	ist	List Repea	Total Step	Step	Mode	Step Repea	degree	Waveform	Vac(V)_sta	Vac(V)_es	Prequency	Prequency	Vdc(V)_st	Vdc(V)_e	nBase	Cycle/Tim	e(ms)		
2	24	23	- 9		Cont	10	9	A	100	100	50	100	0		Cycle	10			
3	24	23			Cont	10	9	٨	100	100	50	100	0		Cycle	10			
4	24	23	9		Cont	10	9	A	100	100	50	100	0		Cycle	10			
5	24	23	9		Cont	10	9	A	100	100	50	100	0		Cycle	10			
6	24	23	9		Cont	10	9	A	100	100	50	100	0		Cycle	10			
7	24	23			Cont	10	9	A	100	100	50	100	0		Cycle	10			
8	24	23	9		Cont.	10	9	A	100	100	50	100	0		Cycle	10			
9	24	23		1	Cont	10	9	A	100	100	50	100	0		Cycle	10			
10	24	23		9	Cont	10	9	A	100	100	50	100	0		Cycle	10			
11																			
12																			

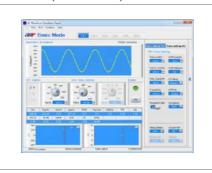
#### **Monitoring Software**

AC Waveform Simulation Panel is a graphical user interface that provides extraordinary capabilities and convenience by delivering control of the unit remotely, which covers all functions of panel operation.

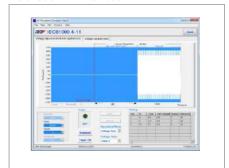
Login Interface



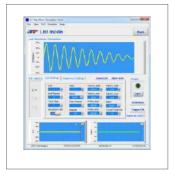
Basic mode(Main interface)



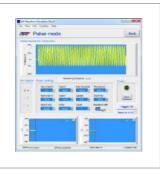
IEC61000 4-11 interface



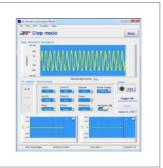
List mode interface



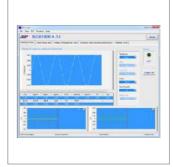
Pulse mode interface



Step mode interface



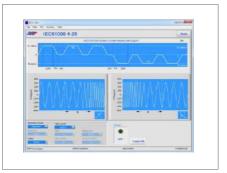
IEC61000 4-13 interface



IEC61000 4-14 interface



IEC61000 4-28 interface



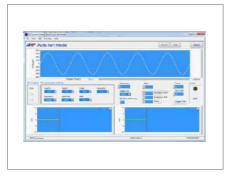
Synthesis mode interface



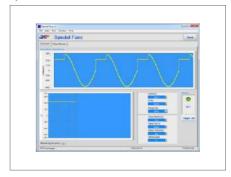
Harmonics Measure mode interface



Auto run mode interface



Special Func interface



MODEL		SPST300VAC1800W-2-9	SPST300VAC3000W-2-9	SPST300VAC4500W-2-9					
		Input							
Voltage		90~265VAC	90~265VAC	100~265VAC					
Frequency		47~63Hz							
Phase		3 Phase, 4Wire+Groud/Y Connect							
Max.Current		30A	45A	57A					
Power Factor		≥ 0.96 Active PFC	≥ 0.98 Active PFC	≥ 0.98 Active PFC					
at 220VAC Input,Full Load  Efficiency		>81% (Peak) >85.5% (Peak) >80% at 220VAC,50Hz input/220VAC,50Hz >85% at 220VAC,50Hz input/220VAC,50Hz		>87.5% (Peak) >87% at 220VAC,50Hz input/220VAC,50Hz output, Full Load					
		•	output,Full Load utput Mode(Per Phase)	output, i dii Eodd					
AC Dower(Total)				4500)/4					
AC Power(Total)  AC Power(Per Phase)		1800VA	3000VA	4500VA 1500VA					
•		600VA	1000VA						
Max.Current	0~150V(L)	5.6A	9.2A	13.8A					
(r.m.s)	0~300V(H)	2.8A	4.6A	6.9A					
Max.Current	0~150V(L)	32.4A	55.2A	82.8A					
(Peak)	0~300V(H)	16.2A	27.6A	41.4A					
			ase Output Mode						
AC Power(Total)[1]		1620VA	2700VA	4050VA					
Max.Current	0~150V(L)	15.12A	24.84A	37.26A					
(r.m.s)	0~300V(H)	7.56A	12.42A	18.62A					
Max.Current (Peak)	0~150V(L)	87.48A 43.47A	74.52A	223.56A 111.78A					
DC Power (Per Pha	0~300V(H)	43.47A 1620W	74.5ZA 2700W	4050W					
· · · · · · · · · · · · · · · · · · ·	100)	L 10.69A	L 17.55A	L 26.35A					
Max.Current (Total)									
(Total)		H 5.1A	H 8.9A	H 13.18A					
		3-Phase Ou	utput Mode(Per Phase)						
Total Harmonic Distortion (THD)  Crest Factor(CF)		<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 100~140VACat Low Range or the 160~280VAC at High Rang;  ≤6							
		±0.2%F.S. (Resistive Load) at 15~100Hz							
Load Regulation		±0.5%F.S. (Resistive Load) at >100Hz							
Line Regulation		± 0.1V							
Line Regulation	Range	0~300VAC, 150V/300V/Auto Mode							
Voltage(AC)	Resolution	0.1V							
(L-N)									
	Accuracy	0.2% of setting +0.4%F.S at Voltage>3V							
	Range	0~359.9°							
Phase Angle (Starting	Resolution	0.1°							
Ending)	Accuracy	± 1° @45~65Hz							
	Range	0~424VDC							
	Resolution	0.1V							
	Accuracy	0.3% of setting +0.4%F.S at Voltage>3V							
	DC Power	600W	1000W	1500W					
Voltage(DC)	Max.Current	L 3.96A	L 6.5A	L 9.76A					
		H 1.89A	H 3.3A	H 4.88A					
	Ripple&Noise(Peak)	L <700mVrms @Bandwidth 20Hz to 1MHz	H <1100mVrms @Bandwidth 2	0Hz to 1MHz					
	Ripple&Noise(r.m.s)	<4000mVp-p @Bandwidth 20Hz to 1MHz							
	Resolution	0.01A							
Current OC Fold Mode	Accuracy	0.5% of setting +1.0%F.S.							
	Response Time	<1400ms							
	Range	15~1000Hz							
requency	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)							
	Accuracy	0.03% of setting							
Programmable Output Impedance		Not Support							
Harmonic & Interharmonics Simulation		Not Support							
2			er Function(Per Phase)						
		AC 0~300VAC	er Fanction(Fer Filase)						
	Range	DC 0~424VDC							
Voltage	Decelet:								
	Resolution	0.1V							
	Accuracy	0.2% of setting +0.4%F.S. (Peak: 0.6% of setting							

MODEL		SPST300VAC1800W-2-9	SPST300VAC3000W-2-9	SPST300VAC4500W-2-9						
	Range	15~1000Hz								
Frequency	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)								
	Accuracy	0.1% of setting								
		H 0.15A~5.6A	H 0.3A~9.2A	H 0.3A~13.8A						
Current <sup>[2]</sup>	Range	L 0.1A~3A	L 0.1A~3A	L 0.1A~3A						
(r.m.s)	Resolution	0.01A								
	Accuracy	0.4%+1.0%F.S.								
	Range	0A~32.4A	0A~55.2A	0A~82.8A						
Current <sup>[2]</sup> (Peak)	Resolution	0.01A								
(i cuit)	Accuracy	0.4%+1.5%F.S.								
	Range	0~612W	0~1020W	0~1530W						
Power	Resolution	0.1W								
	Accuracy	0.4% of setting +0.3%F.S. at PF>0.2, Voltage >5V								
	Range	0~612VA	0~1020VA	0~1530VA						
Power Apparent(VA)	Resolution	0.1VA								
	Accuracy	Voltage*Irms, Calculated value								
Power	Range	0~612VAR	0~1020VAR	0~1530VAR						
Resistive	Resolution	0.1VAR								
(VAR)	Accuracy	$\sqrt{(VA)^2-(W)^2}$ , Calculated value								
Power	Range	0.00~1.00								
Factor (PF)	Resolution	0.01								
	Accuracy	W/VA, Calculated value								
Harmonic	Range	Not Support								
			Extra Function							
			/oltage 0.001~1200.000V/ms and Disable							
Slew Rate	Range	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 r								
Calibration		Firmware-based calibration through the digital interface or front panel display								
Test Function		Not Support								
Graphic Display		4.3" Color touch LCD								
Operation Key Fe		Soft key, Numberic key, Rotary Knob, USB port for transfer and upgrading firmware								
Rack mount Hand	dles	Yes								
FAN		Temperature Control								
Protection Circuit	ts	OCP, OVP, OPP, OTP, RCP, PRI_UVP, PRI_OVP, PRI_OCP, USB_OCP								
Interface		USB, RS485, RS232, LAN(Option); GPIB(Option)								
Operating Tempe	rature	0°C~40°C	Environmental  0°C~40°C							
Storage Tempera		-40°C~85°C								
Altitude		2000m								
Relative Humidity	,	5%~95%, non-condensing								
Temperature Coe		100ppm/°C at Voltage, 300ppm/°C at Current,100ppm/°C at Frequency								
			Nechanical							
Dimensions(WxH	lxD)	540.0x400.0x640.0 mm								
Package Dimensi		660.0x710.0x760.0 mm								
Unit Weight		88.7kg								
Shipping Weight		108.7kg								
- Intrinstruction			Regulatory Compliance							
CE Mark		Installation Overvoltage Category II;Cl								
52 mark		3	. , ,							

 $<sup>\</sup>begin{tabular}{l} [1] In single phase mode, the current shall be reduced to 90\% for the consideration of current sharing. \end{tabular}$ 

All specifications are subject to change without notice.

<sup>[2]</sup> The tolerance will change slightly in high frequency condition;

		SPST300VAC6000W-3-17	SPST300VAC9000W-4-17	SPST300VAC12000W-4-17	SPST300VAC15000W-4-17				
			Input						
/oltage		190~265VAC							
requency		47~63Hz							
Phase		3 Phase, 4Wire+Groud/Y Connect							
Max.Current		42A	60A	75A	90A				
Power Factor at 220VAC Inp	ut.Full Load	≥ 0.99 Active PFC	≥ 0.98 Active PFC	≥ 0.99 Active PFC	≥ 0.99 Active PFC				
Efficiency		>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output, Full Load	>86% (Peak) >85% at 220VAC,50Hz input/230VAC,50Hz output, Full Load	>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output, Full Load	>87% (Peak) >86% at 220VAC,50Hz input/230VAC,50Hz output, Full Load				
_	_	ruii Load	3-Phase Output Mode(Per Phas		Full Load				
0 D(T-A	. 1)	6000VA	9000VA	12000VA	15000VA				
AC Power(Tota		2000VA	3000VA	4000VA	5000VA				
AC Power(Per		16A	27.6A	32A	46A				
/lax.Current r.m.s)	0~150V(L)								
(1.111.5)	0~300V(H)	8A	13.8A	16A	23A				
Max.Current	0~150V(L)	80A	165.6A	160A	184A				
Peak)	0~300V(H)	40A	82.8A	80A	92A				
	(9)	540074	1-Phase Output Mode						
AC Power(Tota		5400VA	8100VA	10800VA	13500VA				
Max.Current	0~150V(L) 0~300V(H)	43.2A	74.52A 37.26A	86.4A 43.2A	124.2A				
r.m.s)	0~300V(H)	21.6A 216A	37.26A 447.12A	43.2A 432A	62.1A 496.8A				
/lax.Current Peak)	0~150V(L)	108A	223.56A	216A	496.8A 248.4A				
C Power (Per	, ,	5400W	8100W	10800W	13500W				
		L 30.51A	L 52.92A	L 61A	L 88A				
Max.Current Total)		H 15.26A	H 26.46A	H 30.51A	H 44A				
,		11 13.20A			11 44A				
		0.50 (0.11)	3-Phase Output Mode(Per Phas						
otal Harmoni	o Diotortion		-	at Low Range or the 160~280VAC at High R	=				
THD)	C DISTOLLION	<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 100~140VACat Low Range or the 160~280VAC at High Rang;							
rest Factor(C	F)	≤5	≤6	≤5	≤4				
and Damulatio		±0.2%F.S. (Resistive Load) at 15~10	00Hz						
oad Regulatio	ori	±0.5%F.S. (Resistive Load) at >100H	łz						
ine Regulation	1	± 0.1V							
	Range	0~300VAC, 150V/300V/Auto Mode							
/oltage(AC) L-N)	Resolution	0.1V							
L-IN)	Accuracy	0.2% of setting +0.4%F.S at Voltage	e>3V						
	Range	0~359.9°							
hase Angle	Resolution	0.1°							
Starting	Resolution	0.1°							
Starting	Accuracy	0.1° ± 1° @45~65Hz							
Starting	Accuracy Range	0.1° ± 1° @45~65Hz 0~424VDC							
Starting	Accuracy Range Resolution	0.1° ± 1° @45~65Hz 0~424VDC 0.1V	21						
Starting	Accuracy Range Resolution Accuracy	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage		1000U	FROOM				
Starting	Accuracy Range Resolution	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W	3000W	4000W	5000W				
Starting Ending)	Accuracy Range Resolution Accuracy	0.1° ±1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A	3000W L 19.6A	L 22.6A	L 32.6A				
Starting Ending)	Accuracy Range Resolution Accuracy DC Power Max.Current	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W	3000W						
Starting Ending)	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise	0.1° ±1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A	3000W L 19.6A H 9.8A	L 22.6A	L 32.6A				
Starting Ending)	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s)	0.1° ±1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A H 5.65A L <700mVrms @Bandwidth 20Hz to	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
Starting Ending)	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution	0.1° ±1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A H 5.65A L <700mVrms @Bandwidth 20Hz to 0.01A	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
ending)  oltage(DC)  urrent CC	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy	0.1° ±1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S.	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
charting changes	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time	0.1° ±1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
oltage(DC)  urrent CC old Mode	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy	0.1° ± 1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms 15~1000Hz	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
cinding)  coltage(DC)  urrent CC  old Mode	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time	0.1° ±1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
oltage(DC)  urrent CC old Mode	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range	0.1° ± 1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms 15~1000Hz	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
Starting Ending)  Foltage(DC)  Current CC old Mode  Programmable	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance	0.1° ± 1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms  15~1000Hz  0.1Hz(15.0~99.9Hz),1Hz(100~1000	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
Coltage(DC)  Courrent CC old Mode  Crequency  Cregrammable Cregrammabl	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance	0.1° ± 1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms  15~1000Hz  0.1Hz(15.0~99.9Hz),1Hz(100~1000) 0.03% of setting	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A	L 32.6A				
Phase Angle Starting Ending)  /oltage(DC)  Current CC Fold Mode  Frequency  Programmable Harmonic & Intimitation	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance	0.1° ± 1° @45~65Hz  0~424VDC  0.1V  0.3% of setting +0.4%F.S at Voltage 2000W  L 11.3A  H 5.65A  L <700mVrms @Bandwidth 20Hz to  0.01A  2.0% of setting +1.0%F.S. <1400ms  15~1000Hz  0.1Hz(15.0~99.9Hz),1Hz(100~1000)  0.03% of setting  Not Support	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A rms @Bandwidth 20Hz to 1MHz	L 32.6A				
Current CC cold Mode	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A H 5.65A L <700mVrms @Bandwidth 20Hz to 0.01A 2.0% of setting +1.0%F.S. <1400ms 15~1000Hz 0.1Hz(15.0~99.9Hz),1Hz(100~1000) 0.03% of setting Not Support Not Support	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A rms @Bandwidth 20Hz to 1MHz	L 32.6A				
Coltage(DC)  Courrent CC old Mode  Crequency  Cregrammable Cregrammabl	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A H 5.65A L <700mVrms @Bandwidth 20Hz to 0.01A 2.0% of setting +1.0%F.S. <1400ms 15~1000Hz 0.1Hz(15.0~99.9Hz),1Hz(100~1000) 0.03% of setting Not Support Not Support AC 0~300VAC	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A rms @Bandwidth 20Hz to 1MHz	L 32.6A				
Current CC cold Mode	Accuracy Range Resolution Accuracy DC Power Max.Current Ripple&Noise (Peak) Ripple&Noise (r.m.s) Resolution Accuracy Response Time Range Resolution Accuracy Output Impedance erharmonics	0.1° ± 1° @45~65Hz 0~424VDC 0.1V 0.3% of setting +0.4%F.S at Voltage 2000W L 11.3A H 5.65A L <700mVrms @Bandwidth 20Hz to 0.01A 2.0% of setting +1.0%F.S. <1400ms 15~1000Hz 0.1Hz(15.0~99.9Hz),1Hz(100~1000) 0.03% of setting Not Support Not Support	3000W L 19.6A H 9.8A to 1MHz H <1100mVi	L 22.6A H 11.3A rms @Bandwidth 20Hz to 1MHz	L 32.6A				

MODEL		SPST300VAC6000W-3-17	SPST300VAC9000W-4-17	SPST300VAC12000W-4-17	SPST300VAC15000W-4-17							
	Range	15~1000Hz										
Frequency	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000H	z)									
	Accuracy	0.1% of setting										
		H 0.15A~20A	H 0.3A~27.6A	H 0.3A~32A	H 0.3A~46A							
	_	M -	M 0.2A~20A	M 0.2A~20A	M 0.2A~20A							
Current <sup>[2]</sup>	Range	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A							
(r.m.s)		mA 0.02A~1.5A	mA 0.02A~1.5A	mA 0.02A~1.5A	mA 0.02A~1.5A							
	Resolution	0.01A										
	Accuracy	0.4%+1.0%F.S.										
	Range	0A~81.5A	0A~168.6A	0A~163A	0A~188A							
Current <sup>[2]</sup> (Peak)	Resolution	0.01A										
(Peak)	Accuracy	0.4%+1.5%F.S.										
	Range	0~2040W	0~3060W	0~4080W	0~5100W							
Power	Resolution	0.1W										
	Accuracy	0.4% of setting +0.3%ES. at PF>0.2, Voltage >5V										
	Range	0~2040VA	0~3060VA	0~4080VA	0~5100VA							
Power	Resolution	0.1VA										
Apparent(VA)	Accuracy	Voltage*Irms, Calculated value										
	Range	0~2040VAR	0~3060VAR	0~4080VAR	0~5100VAR							
Power Resistive	Resolution	0.1VAR										
(VAR)	Accuracy	$\sqrt{(VA)^2-(W)^2}$ , Calculated value										
Power	Range	0.00~1.00										
Factor	Resolution	0.01										
(PF)	Accuracy	W/VA, Calculated value										
Harmonic	Range	Not Support										
			Extra Function									
		AC Voltage 0.001~1200.000V/ms and Disable										
Slew Rate	Range	DC Voltage 0.001~1000.000V/ms ar	nd Disable									
		Frequency 0.001~1600.000Hz/ms and Disable										
Remote Sense	Range	5V(rms), Max. Total power less than r	ated power									
Calibration		Firmware-based calibration through th	ne digital interface or front panel display	1								
Test Function		Not Support										
Graphic Display		5.6" Color touch LCD										
Operation Key F	eature	Soft key, Numberic key, Rotary Knob, l	JSB port for transfer and upgrading firm	ware								
Rack mount Ha	ndles	Yes										
FAN		Temperature Control										
Protection Circu	its	OCP, OVP, OPP, OTP, RCP, PRI_UVP, P	OCP, OVP, OPP, OTP, RCP, PRI_UVP, PRI_OVP, PRI_OCP, USB_OCP									
Interface		USB, RS485, RS232, LAN(Standard); GPIB(Option)										
			Environmental									
Operating Temp	erature	0°C~40°C										
Storage Temper	ature	-40°C~85°C										
Altitude		2000m										
Relative Humidi	ty	5%~95%, non-condensing										
Temperature Co	efficient	100ppm/°C at Voltage, 300ppm/°C at	100ppm/°C at Voltage, 300ppm/°C at Current,100ppm/°C at Frequency									
			Mechanical									
Dimensions(Wx	HxD)	560.0x754.0x700.0 mm										
Package Dimen	sions (WxHxD)	680.0x1146.0x820.0 mm										
Unit Weight		134.0kg	157.0kg	157.0kg	157.0kg							
Shipping Weigh	:	173.0kg	195.0kg	195.0kg	195.0kg							
			Regulatory Compliance									
CE Mark		Installation Overvoltage Category II;Class II equipment;indoor use only.										

<sup>[1]</sup> In single phase mode, the current shall be reduced to 90% for the consideration of current sharing.

<sup>[2]</sup> The tolerance will change slightly in high frequency condition;

All specifications are subject to change without notice.