









Output			Model	Size	Standard Interface	Optional Information	Certificates	
Voltage	Current	Power	Model	3126	Standard Interrace	Optional information	Certificates	
150V/300V	5.6A/2.8A	600W	SP300VAC600W	2U 🚺	RS232/RS485/USB	(1) (2) (3)	CE/UL/CSA/FCC	
150V/300V	9.2A/4.6A	1000W	SP300VAC1000W	2U 🚺	RS232/RS485/USB	(1) (2) (3)	CE/UL/CSA/FCC	
150V/300V	13.8A/6.9A	1500W	SP300VAC1500W	2U 1	RS232/RS485/USB	(1) (2) (3)	CE/UL/CSA/FCC	
150V/300V	16A/8A	2000W	SP300VAC2000W	3U ²	RS232/RS485/USB	(4) (5) (6)	CE/UL/CSA/FCC	
150V/300V	27.6A/13.8A	3000W	SP300VAC3000W	4U 🔞	RS232/RS485/USB	(4) (5) (6)	CE/UL/CSA/FCC	
150V/300V	32A/16A	4000W	SP300VAC4000W	4U 🔞	RS232/RS485/USB	(4) (5) (6)	CE/UL/CSA/FCC	
150V/300V	46A/23A	5000W	SP300VAC5000W	4U 🔞	RS232/RS485/USB	(4) (5) (6)	CE/UL/CSA/FCC	

^{*} When the frequency is below 200Hz, the output voltage can reach 320V (only applicable to 3U and 4U models)

Dimensions & Weight



15.9kg 423.0x87.0x520.0 mm



2 423.0x133.0x520.0 mm & 21.4kg



3 423.0x177.0x520.0 mm & 29kg

Optional Information

(1) LAN & GPIB interface card & cables



(2) Analog I/O interface card & cable



(3) Multiphase link card & cable



(4) GPIB interface card & cable









Features

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

Difference between Advanced Version and Professional Version

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

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
- Output Terminal
- 6 AC Input Terminal
- RS485/RS232/USB Communication Interface (LAN & GPIB Interface Card is Optional)
- 8 Analog I/O Interface Card (Optional)

■ Front Panel Introduction



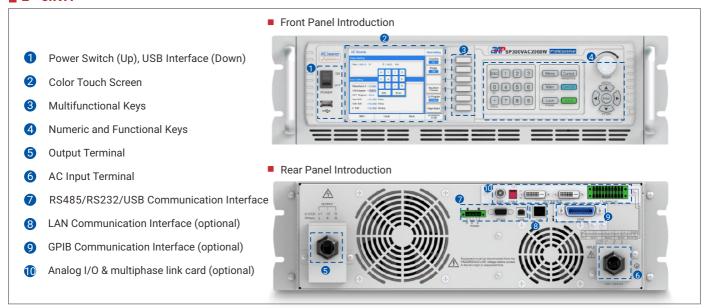
■ Rear Panel Introduction



Note: If the LAN&GPIB communication card is selected, it will replace RS485/RS232/USB to be installed in the same position;

If parallel/multiphase interface card is selected, it will replace remote I/O interface card to be installed in the same position.

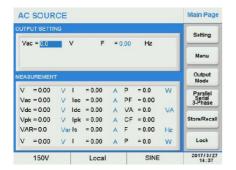
2 - 5kVA

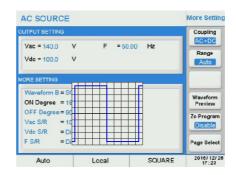


Function Introduction

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.

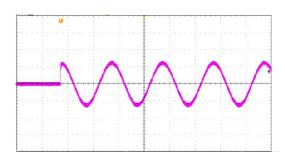




Settable ON/OFF Phase Angle of Output Waveform

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.

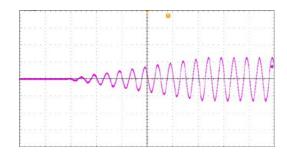




Slew Rate Setting For Voltage and Frequency

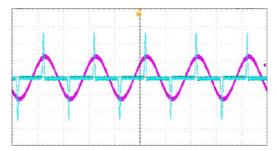
This series AC power supply let users set the slew rate of voltage and frequency, in such application in order to reduce the inrush current during motor or compressor startup.





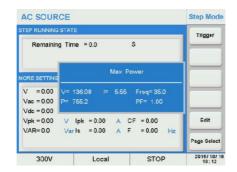
High Output Crest Factor

This series AC power supply deliver up to 5~6 times of peak current from its RMS current, so it is suitable for testing switching power supplies and motor with high inrush current issue.



Power Sweep Function

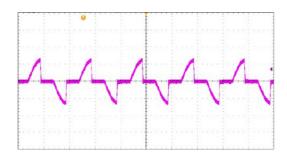
This series AC power supply can test the efficiency of switching power supply and capturing the voltage, current, power and frequency at the maximum power operating point, the measurements will be displayed at the end of the sweep.



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.

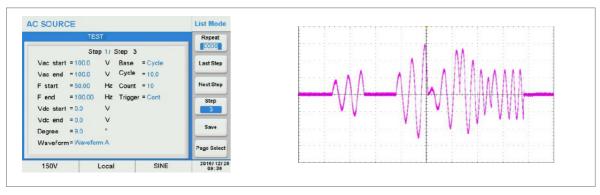




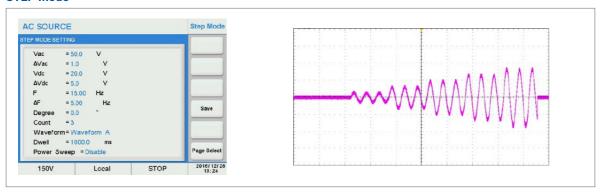
Power Line Disturbance Simulation

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.

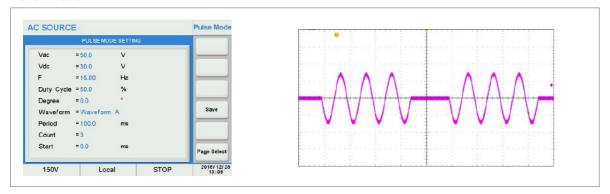
LIST Mode



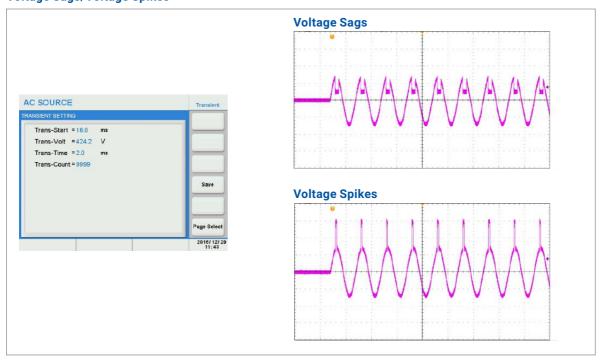
STEP Mode



PULSE Mode

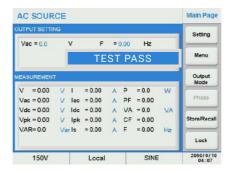


Voltage Sags/Voltage Spikes



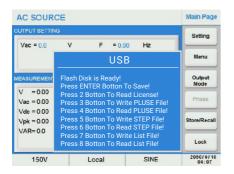
Test Mode

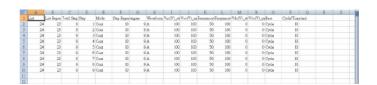
The test mode compares measurement values against a user defined set of measurement limits and shows a PASS or FAIL result in one or more measurement are out of range. The user can set when start of the measurement and duration of the test.



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.





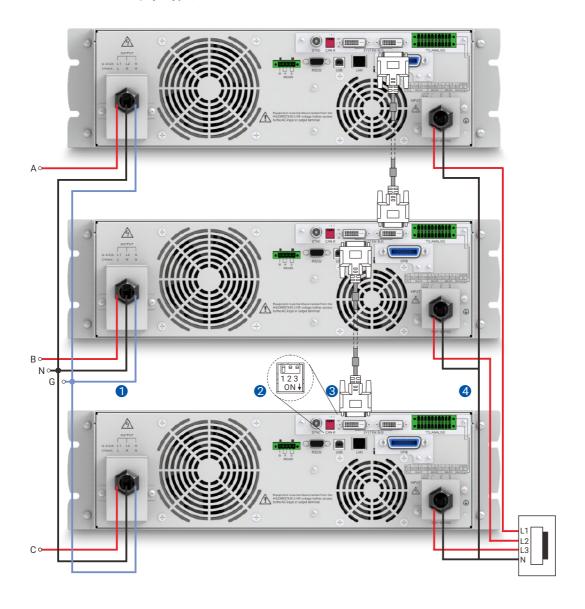
Parallel/Series/3-Phase Mode

This series AC power source can be used in parallel or series to provide more power, the maximum current up to 184A and the voltage up to 600V. In 3-phase mode, the Master unit is always phase A, Slave 1 is always phase B and Slave 2 is always phase C. The phase difference between phase A and B is always 120° and between phase A and C is always 240°. The output voltage of phase B and C will be set to the same setting as that for phase A (Master) if the Voltage Mode is set to COM. Or if the Voltage Mode is set to Multi, phase B and C output voltage can be set individually to simulate 3-phase unbalance system. The output of 3-Phase system can be connected for three-phase, four wire (Delta configuration) loads or for three-phase, five wire (Wye configuration) according to the application requirement.





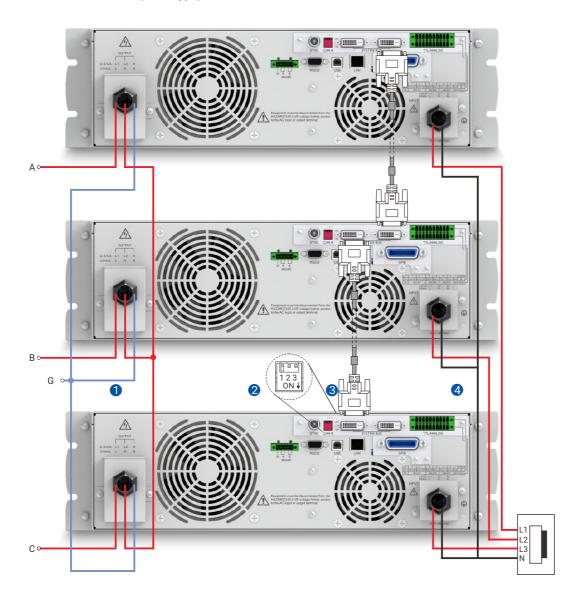
Three-phase five-wire connection (Wye type)



- Output connections
- 2 Terminal resistance CAN-R, flip Dip switch 1 to ON position (Down)
- 3 System bus communication cable.
- 4 Only support three-phase five-wire connection

The output voltage range of three-phase five-wire (Wye type) connection is $0 \sim 300$ V.

Three-phase four-wire connection (Delta type)



- 1 Output connections
- 2 Terminal resistance CAN-R, flip Dip switch 1 to ON position (Down)
- 3 System bus communication cable.
- 4 Only support three-phase five-wire connection

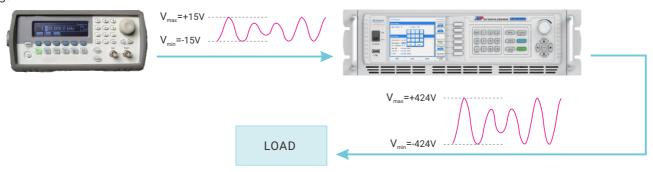
The output voltage range of three-phase four-wire (Delta type) connection is $0 \sim 519V$

External Control Function

By selecting Analog I/O card to achieve below function:

1) Amplifier Mode

In Amplifier mode, the power source acts as a power amplifier, taking a low-level analog signal and amplifying it by a fixed amount of gain.



2) External Control Instruction

Pin No.	Reference	Туре	Description	Maximum
Pin1	ON/OFF	EXT.V	Control input for output on/off, low level (0 \sim 0.5V) disables the output, high level (4.5 \sim 5.5V) enables the output	
Pin2	KEEP OFF ^[1]	EXT.V	Keep OFF function, low level (0-0.5V) disables the function, high level (4.5-5.5V) enables the function	
Pin3	RESET	EXT.V	High level (4.5 \sim 5.5V) will enable alarm clear function	
Pin4	CALL 1	EXT.V	0=low electrical level (0-0.5V), 1= high electrical level (4.5 \sim 5.5V)	6Vdc
Pin5	CALL 2	EXT.V	0=low electrical level (0-0.5V), 1= high electrical level (4.5 \sim 5.5V)	
Pin6	CALL 3	EXT.V	0=low electrical level (0-0.5V), 1= high electrical level (4.5 \sim 5.5V)	
Pin7	DC+5V	EXT.V	When the power supply is in the "POWER=ON" state, the output DC+5V voltage, and the maximum allowable current is 120mA	_
Pin8	NA	EXT.V	Not Used	_
Pin9-10		EXT.V	GND	_

[1] If the KEEP OFF signal keeps high (enable) there will be always no output.

3) TLL Signal Instruction

Pin No.	Reference	Туре	Description	Maximum	Electrical Parameters	
Pin1-2	RELAY1-PASS	TTL	These two pins will connected internally when the unit passed the test mode		These pins without positive	
Pin3-4	RELAY2-FAIL	TTL	These two pins will connected internally when the unit failed the test mode	250VAC 3Amp/ 30VDC 3Amp	andnegative polarity, do not share the ground netither.	
Pin5-6	RELAY3-RUN	TTL	These two pins will connected internally when the unit is not running			
Pin7	DO_ON/OFF	TTL	When power ON, high voltage $(4.5\sim5.5\text{V})$; When power OFF, low voltage $(0\sim0.5\text{V})$	-	-	
Pin8	DO2	TTL	Not Used	_	_	
Pin9-10		TTL	GND	-	-	

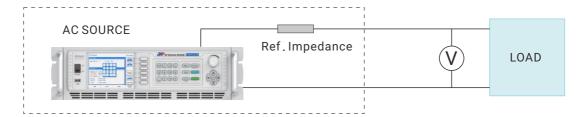
Firmware Upgrade

This series AC power source supports firmware upgrade. The DSP firmware can be upgraded via RS232 communication, the display and remote firmware can be upgraded via the USB interface in the front panel. The upgrade process is very easy to operate. The upgrade feature keeps the latest software function supported by the power supply.

Professional Version Power Supply Function

Programmable Output Impedance Function

The low output impedance and low voltage harmonics of this series power supply make it ideal for IEC61000-3-2 standard testing. A current feedback control circuit makes the output voltage changed with load. This feature is suitable for IEC61000-3-3 Flicker tests. The user can set the resistance and inductance value according to the test requirement.



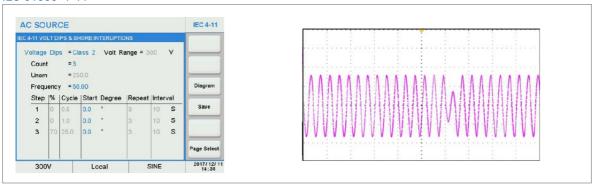
More Built-in IEC Standard Test Waveforms

Professional version supports more built-in IEC standard test waveforms

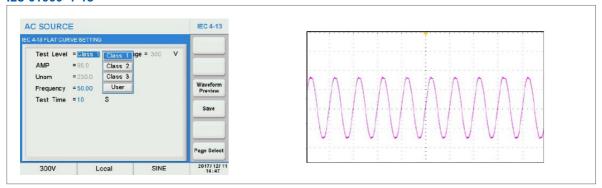
- IEC 61000-4-11, Testing and measurement techniques-Voltage dips, short interruptions and voltage variations immunity tests (AC,<16A)
- IEC 61000-4-13, Testing and measurement techniques-Harmonics and inter-harmonics including mains signaling at AC power port, low frequency immunity tests
- IEC 61000-4-14, Testing and measurement techniques-Voltage fluctuation immunity test
- IEC 61000-4-28, Testing and measurement techniques-Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase

The above standards can meet the power immunity test for products exported to Europe.

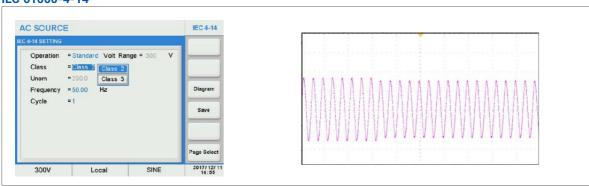
IEC 61000-4-11



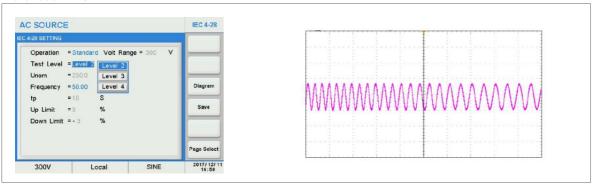
IEC 61000-4-13



IEC 61000-4-14

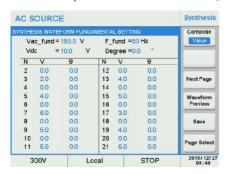


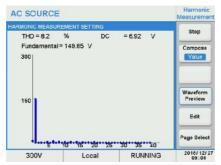
IEC 61000-4-28

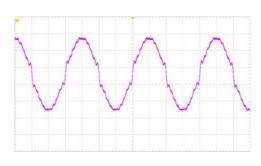


Harmonic/inter-harmonic Generation Simulation and Measurement Function

Support creating waveforms made up of a series of harmonics frequencies, amplitudes and phase shifts, up to 40 orders harmonics of 50Hz or 60Hz. The harmonics measurement function measures total harmonic distortion (THD), DC voltage and current and fundamental voltage and current for output settings of 50Hz or 60Hz. The measurement of $2\sim40$ orders can be displayed in absolute values or in percent of the fundamental, the harmonics measurement will be displayed with a graphical representation.







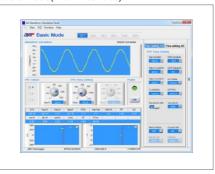
Monitoring Software

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



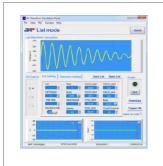
Basic mode(Main interface)



IEC61000 4-11 interface



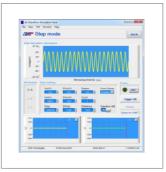
List mode interface



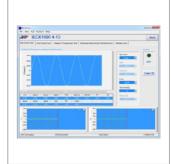
Pulse mode interface



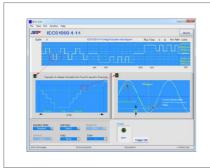
Step mode interface



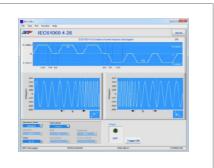
IEC61000 4-13 interface



IEC61000 4-14 interface



IEC61000 4-28 interface



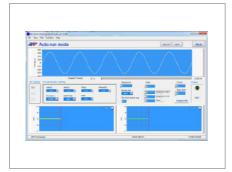
Synthesis mode interface



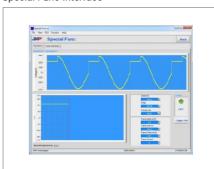
Harmonics Measure mode interface



Auto run mode interface

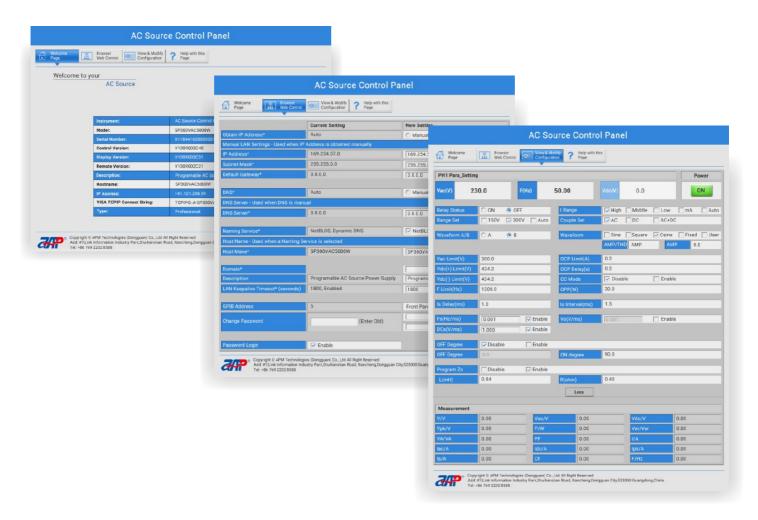


Special Func interface



Web Server Function

This series AC power supply provides a built-in web server interface, then the user can configure and monitor the settings from the PC's Web browser.



Model		SP300VAC600W	SP300VAC1000W	SP300VAC1500W			
			Input				
Voltage -		90~265VAC	90~265VAC	100~265VAC			
Frequency		47~63Hz					
Phase		1 Phase, 2Wire+Groud	154	104			
Max. Current		10A	15A	19A			
Power Factor at 220	OVAC Input, Full Load	≥ 0.91 Active PFC	≥ 0.95 Active PFC	≥ 0.97 Active PFC			
Efficiency		> 82%(Peak) > 80% at 220VAC, 50Hz input/230VAC, 50Hz output, Full Load	> 86%(Peak) > 84% at 220VAC, 50Hz input/230VAC, 50Hz output, Full Load	> 87%(Peak) > 86% at 220VAC, 50Hz input/230VAC, 50Hz output, Full Load			
			Output				
AC Power		600VA	1000VA	1500VA			
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			
Phase		1 Phase					
Total Harmonic Dis	tortion (THD)	<1% (Resistive Load) at 70.1~500Hz and <1% (Resistive Load) at 501~1000Hz and	ind output voltage within 80~140VAC at Low Rang loutput voltage within 80~140VAC at Low Rang doutput voltage within 100~140VAC at Low Rand ord output voltage within 100~140VAC at Low Rangersional Version Models.	ge or 160~280VAC at High Range. nge or 160~280VAC at High Range.			
Crest Factor (CF)		< 6					
Load Regulation		± 0.1%F.S. @15~70Hz (Resistive Load) ± 0.5%F.S. @0thers Freq. (Resistive Load)					
Line Regulation		± 0.1V					
Rise/Fall Time (DC)		< 250us					
	Range	0~300VAC , 150V/300V/Auto					
Voltage (AC)	Resolution	0.1V					
	Accuracy	0.2% of setting + 0.2%F.S.					
Phase Angla	Range	0~359.9°					
Phase Angle (Starting / Ending)	Resolution	0.1°					
(a. ag / Erialing)	Accuracy	± 1°@45~65Hz					
	Range	0~424VDC					
	Resolution	0.1V					
	Accuracy	0.2% of setting + 0.2%F.S.	1000W	150014			
	Max. Power	600W	1000W	1500W			
Voltage (DC)	Max. Current	L 3.96A H 1.89A	L 6.5A H 3.3A	L 9.76A H 4.88A			
	(L/H Range) Ripple & Noise (r.m.s)	L <700mVrms @Bandwidth 20Hz to 1MHz		114.00A			
		H <1100mVrms @Bandwidth 20Hz to 1MHz					
	Ripple & Noise (Peak)	<4000mVp-p @Bandwidth 20Hz to 1MHz					
Current CC	Resolution	0.01A					
Fold Mode	Accuracy	0.5% of setting + 1.0%F.S.					
	Response Time	<1400ms					
	Range ^[1]	15~1200Hz Full Range ADJ	(a) EH-(1001, 1000H-)				
Frequency	Resolution	0.1Hz (15.0~99.9Hz), 1Hz (100~1000H	12), 5H2 (1UU1~12UUHZ)				
Programmakla Out	Accuracy	0.03% of setting					
Programmable Outp Harmonics & Inter-h	narmonics Simulation ^[3]	0Ω+0mH~1Ω+1mH 2400Hz					
i idimonica a ilitel-l	amonica aimulation		Measurement				
		AC 0~300VAC	- Measurement				
	Range	DC 0~424VDC					
Voltage	Resolution	0.1V					
	Accuracy	0.1% 0.2% of setting + 0.2%F.S.					
	Range ^[1]	15~1200Hz					
Frequency	Resolution	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz	z),5Hz(1001~1200Hz)				
	Accuracy	0.1% of setting	, , , , , , , , , , , , , , , , , , ,				
	,	H 0.15A~5.6A	H 0.15A~9.2A	H 0.15A~13.8A			
	D	M -	М -	M -			
Current	Range	L 0.1A~3A	L 0.1A~3A	L 0.1A~3A			
Current (r.m.s)		mA -	mA -	mA -			
	Resolution	0.01A					
	Accuracy	0.4%+1.0%F.S.		H 0.4%+1.0%F.S. L 0.4%+1.5%F.S.			
	Range	0~32.4A	0~55.2A	0~82.8A			
Current	Resolution	0.01A					
(Peak)		H 0.4%+1.0%F.S.					
(Peak)	Accuracy	H 0.4%+1.0%F.S.					

Model		SP300VAC600W	SP300VAC1000W	SP300VAC1500W					
	Range	0~600W	0~1000W	0~1500W					
Power	Resolution	0.1W	0~1000W	0 100011					
1 Owel	Accuracy		2 Voltago>5V						
Power	Range	0.4% of setting + 1.0% F.S. at PF>0.2, Voltage>5V 0~612VA 0~1530VA							
Apparent	Resolution	0.1VA	01-1020VA	0~1330VA					
(VA)	Accuracy		Voltage*Irms, Calculated value						
Power	Range								
Resistive	Resolution	0~612VAR 0~1020VAR 0~1530VAR 0.1VAR							
(VAR)	Accuracy								
	-	$\sqrt{(VA)^2-(W)^2}$, Calculated value $0.00 \sim 1.00$							
Power	Range Resolution								
Factor		0.01							
(PF)	Accuracy	W/VA, Calculated value							
Harmonic	Range ^[4]	2~40 orders							
D	Danas	5)// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Extra Function						
Remote Sense	Range	5V(rms), Max. Total power less tha							
		AC Voltage 0.001~1200.000V/ms							
Slew Rate	Range	DC Voltage 0.001~1000.000V/ms	and Disable						
		Frequency 0.001~1600.000Hz/ms	and Disable						
Transient		Trans-Start: 0.0~66.5ms @ 15Hz,	Resolution: 0.1ms						
Generator	Danie	Trans-Volt: -212V~+212V(L), -424\	/~+424V(H), Resolution: 0.1V						
(only for	Range	Trans-Time: 0.0~66.5ms @ 15Hz,	Resolution: 0.1ms						
15~70Hz)		Trans-Count: 0~9999, Constant							
Calibration		·	h the digital interface or front panel						
Test Function		Yes	the digital interrupe of mont panel						
Parallel Output for 1	Phase	Yes Yes, 4 Units Max. (Option: Multiphase Link Card)							
Series Output for 1		Yes, 2 Units Max. (Option: Multiphase Link Card)							
Link Output for 3 Ph		Yes, (Option: Multiphase Link Card) Yes, (Option: Multiphase Link Card)							
Link Output for 511	idae	General							
Graphic Display		4.3" Color touch LCD	General						
	ıro	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware							
Operation Key Feato		Yes	, OSB port for transfer and upgrading firmware						
FAN	:5	Temperature Control							
			VEDEL OVE EEL OTE EEL OOF HEEL OOF						
Protection Circuits Interface			VP,PRI_OVP, PRI_OTP, PRI_OCP, USB_OCP						
interrace	_	Standard USB, RS-485, RS-232; GF	·						
			I Input/Output Signal Characteristics (Option)						
Remote Input Signa	I	Signal input for external trigger for execution of programmed value Signal: ON/OFF RESET KEEP OFF Recall program memory 1 through 7							
		Signal: ON/OFF, RESET, KEEP OFF, Recall program memory 1 through 7							
Remote Output Sigr	nal	Signal output indicating that a test mode is present							
		Signal: PASS, FAIL, TEST-IN-PROCESS							
External Signal Wav	reform 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							
		reference via bivo type, between th	Environment	inte untereite					
On exeting Town		0%5 40%5	Environment						
Operating Temperat			0°C ~ 40°C						
Storage Temperatur	re	-40°C ~ 85°C							
Fan Noise		73dBA Max.							
Altitude		2000m							
Relative Humidity		5%~95%, non-condensing							
Temperature Coeffi	cient	100ppm/°C at Voltage, 300ppm/°C at Current, 100ppm/°C at Frequency							
5:	2)	100.0.07.0.755	Mechanical						
Dimensions (W*H*I		423.0x87.0x520.0 mm							
Package Dimensions (W*H*D)		594.0x241.0x744.0 mm							
Unit Weight		15.9kg							
Shipping Weight		19kg							
			Regulatory Compliance						
EMC			4/30/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.						
Isolation Voltage		3000VAC,input to output; 1500VA	•						
RoHS		Meet to EU Directive 2011/65/EU	Meet to EU Directive 2011/65/EU for restriction of hazardous substances in Electrical and Electronic Equipment.						

^[1] Only Professional Version units support 15.00~1200.00Hz.
[2] Only Professional Version units support Programmable Output Impedance function.
[3] Only Professional Version units support Harmonics & Inter-harmonics Simulation function.
[4] Only Professional Version units support Harmonics function.

All specifications are subject to change without notice.

Model		SP300VAC2000W	SP300VAC3000W	SP300VAC4000W	SP300VAC5000W			
		100.0651/10	Input					
'oltage		190~265VAC						
Frequency		47~63Hz						
Phase		1 Phase, 2Wire+Groud	20.4	254	204			
Max. Current	MACInnut Full 1	14A ≥0.99, ActivePFC	20A ≥0.98, ActivePFC	25A	30A			
Power Factor at 220	VAC Input, Full Load			≥0.99, ActivePFC	≥0.99, ActivePFC			
Efficiency		> 87%(Peak) > 86% at 220VAC, 50Hz input 230VAC,50Hz output, Full Load	> 86%(Peak) > 85% at 220VAC, 50Hz inpu 230VAC,50Hz output, Full Lc		> 87%(Peak) > 86% at 220VAC, 50Hz input 230VAC,50Hz output, Full Loa			
		200 Trojoon 2 Output, Tun 2000	Output	200 V (0,00) 12 Gutput, 1 un 20ud	2007/10/00/12 00/04/7 01/ 200			
AC Power		2000VA	3000VA	4000VA	5000VA			
Max. Current	0~150V(L)	16A	27.6A	32A	46A			
(r.m.s)	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			
hase		1 Phase		<u>'</u>	'			
		<0.5% (Resistive Load) at 15.0~	70.0Hz and output voltage wi	thin 80~140VAC at Low Range or 160~	280VAC at High Range.			
				n 80~140VAC at Low Range or 160~28				
Fotal Harmonic Disto	ortion (THD)							
Total Hairnonic Dist	ortion (TTD)			in 100~140VAC at Low Range or 160~				
				hin 100~140VAC at Low Range or 160~	~280VAC at High Range.			
2		Note: 1001~1200Hz only availal			- 4			
Crest Factor (CF)		≤ 5	≤ 6	≤ 5	≤ 4			
oad Regulation		± 0. 1%F.S. @15~70Hz (Resistive I						
ine Regulation		± 0. 5%F.S. @Others Freq. (Resisting	re Load)					
		± 0.1V						
Rise/Fall Time (DC)	Danas	<180us	0)/ 000//f					
Voltage (AC)	Range	0~320VAC, 150V/300V/Auto (30	UV~32UV frequency should be u	ised below 200Hz)				
voltage (AC)	Resolution	0.1V						
	Accuracy	0.2% of setting + 0.2%F.S.						
Phase Angle	Range	0~359.9°						
Starting / Ending)	Resolution	0.1°						
	Accuracy	±1°@45~65Hz						
	Range	0~452.5VDC						
	Resolution	0.1V						
	Accuracy	0.2% of setting + 0.2%F.S.						
	Max. Power	2000W 3000W 4000W 5000W						
Voltage (DC)	Max. Current	L 11.3A	L19.6A	L 22.6A	L 32.6A			
	(L/H Range)	H 5.65A	H 9.8A	H 11.3A	H 16.3A			
	Ripple & Noise (r.m.s)	L <700mVrms @Bandwidth 20Hz to 1MHz						
		H <1100mVrms @Bandwidth 20Hz						
	Ripple & Noise (Peak)	<4000mVp-p @Bandwidth 20Hz to	1MHz					
Current CC	Resolution	0.01A						
old Mode	Accuracy	0.5% of setting + 1.0%F.S.						
	Response Time	<1400ms						
	Range ^[1]	15~1200Hz Full Range ADJ						
requency	Resolution	0.1Hz (15.0~99.9Hz), 1Hz (100	~1000Hz), 5Hz (1001~1200	Hz)				
	Accuracy	0.03% of setting						
Programmable Outp		$0\Omega + 0mH \sim 1\Omega + 1mH$						
Harmonics & Inter-ha	armonics Simulation[3]	2400Hz						
			Measurement					
	Range	AC 0~320VAC						
/oltage		DC 0~452.5VDC						
3-	Resolution	0.1V						
	Accuracy	0.2% of setting + 0.2%F.S.						
	Range ^[1]	15~1200Hz						
requency	Resolution	0.1Hz(15.0~99.9Hz), 1Hz(100	~1000Hz), 5Hz(1001~1200H	Hz)				
	Accuracy	0.1% of setting						
		H 0.15A~20A	H 0.3A~27.6A	H 0.3A~32A	H 0.3A~46A			
	Range	М -	M 0.2A~20A	M 0.2A~20A	M 0.2A~20A			
	range	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A	L 0.1A~5A			
			mA 0.02A~1.5A	mA 0.02A~1.5A	mA 0.02A~1.5A			
		mA 0.02A~1.5A	0.01A					
	Resolution							
Current (r.m.s)			H/M 0.4%+0.6%F.S.					
	Resolution Accuracy	0.01A	H/M 0.4%+0.6%F.S. L/mA 0.4%+1.0%F.S.					
		0.01A H/M 0.4%+1.0%F.S.		0.05~163A	0.05~188A			

Model		SP300VAC2000W	SP300VAC3000W	SP300VAC4000W	SP300VAC5000W					
	Range	0~2040W	0~3060W	0~4080W	0~5100W					
Power	Resolution	0.1W								
	Accuracy	0.4% of setting + 1.0% F.S. at PF>0.2, Voltage>5V								
Power	Range	0~2040VA	0~3060VA	0~4080VA	0~5100VA					
Apparent	Resolution	0.1VA								
(VA)	Accuracy	Voltage*Irms, Calculated value								
Power	Range	0~2040VAR	0~3060VAR	0~4080VAR	0~5100VAR					
Resistive	Resolution	0.1VAR								
(VAR)	Accuracy	√(VA)²-(W)², Calculated value								
Power	Range	0.00~1.00								
Factor	Resolution	0.01								
(PF)	Accuracy	W/VA, Calculated value								
Harmonic	Range ^[4]	2~40 orders								
			Extra Function							
Remote Sense	Range	5V(rms), Max. Total power less than	rated power.							
	-	AC Voltage 0.001~1200.000V/ms a	nd Disable							
Slew Rate	Range	DC Voltage 0.001~1000.000V/ms a								
		Frequency 0.001~1600.000Hz/ms a								
-		Trans-Start: 0.0~66.5ms @ 15Hz, Re								
Transient Generator		Trans-Volt: -212V~+212V(L), -424V^								
	Range		* *							
(only for 15~70Hz)		Trans-Time: 0.0~66.5ms @ 15Hz, Re	esolution: 0.1ms							
,		Trans-Count: 0~9999, Constant								
Calibration		Firmware-based calibration through	the digital interface or front panel							
Test Function		Yes								
Parallel Output fo		Yes, 4 Units Max. (Option: Remote I/O & Parallel, Multiphase Link Card)								
Series Output for		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 Fe		Soft key, Numeric 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		Standard USB, RS-485, RS-232; GPIB & LAN is Optional Remote Control Input/Output Signal Characteristics (Option)								
				acteristics (Option)						
Remote Input Sig	nal	Signal input for external trigger for execution of programmed value								
		Signal: ON/OFF, RESET, KEEP OFF, Recall program memory 1 through 7								
Remote Output Si	ignal	Signal output indicating that a test mode is present								
		Signal: PASS, FAIL, TEST-IN-PROCESS								
External Signal W	aveform Input	Signal input for output voltage waveform programming by external analog								
		reference via BNC type. Between the	reference via BNC type. Between the sync signal and the output wave will be 0.5ms time difference							
0		0.00 40.00	Environment							
Operating Tempe			0°C ~ 40°C							
Storage Tempera	ture	-40°C ~ 85°C								
Fan Noise			73dBA Max.							
Altitude		2000m								
Relative Humidity		5%~95%, non-condensing	100							
Temperature Coe	etticient	100ppm/°C at Voltage, 300ppm/°C a								
Mechanical Mechanical										
Dimensions (W*F		423.0x133.0x520.0 mm	423.0x177.0x520.0 mm							
Package Dimensions (W*H*D)		643.0x278.5x802.0 mm 643.0x323.0x802.0 mm								
Unit Weight		21.4kg	29.0kg							
Shipping Weight		24.4kg 32.0kg								
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.										
		, ,		, , , , , , , , , , , , , , , , , , ,	ou nuico.					
Safety		CE marked for LVD Directive 2014/3		<u>'</u>						
CE Mark			Installation Overvoltage Category II; Pollution Degree 2; Class II equipment; indoor use only.							
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.								

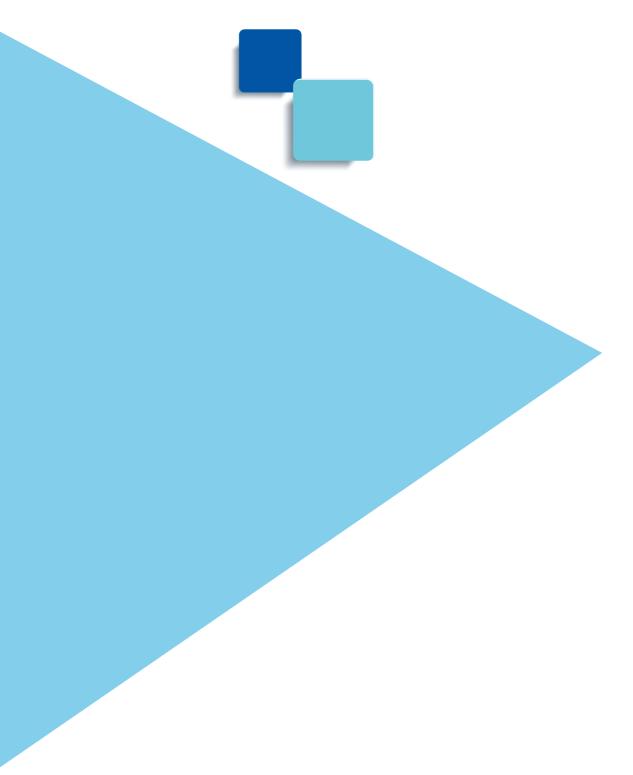
^[1] Only Professional Version units support 15.00~1200.00Hz.

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^[4] Only Professional Version units support Harmonics function.

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