



High Efficiency











	Output	Model	Size	Standard Interface	Optional Information	Certificates		
Voltage	Power	Output Mode	Model	3126	Standard Interrace	Optional information	Gertineates	
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 1	RS232/RS485/USB	(1)	CE	
150V/300V	4500W	Single/Three Phase	SPST300VAC4500W-2-9	9U 1	RS232/RS485/USB	(1)	CE	
150V/300V	6000W	Single/Three Phase	SPST300VAC6000W-3-17	17U 2	RS232/RS485/USB	(2) (3)	CE	
150V/300V	9000W	Single/Three Phase	SPST300VAC9000W-4-17	17U 3	RS232/RS485/USB	(2) (3)	CE	
150V/300V	12000W	Single/Three Phase	SPST300VAC12000W-4-17	17U 3	RS232/RS485/USB	(2) (3)	CE	
150V/300V	15000W	Single/Three Phase	SPST300VAC15000W-4-17	17U 3	RS232/RS485/USB	(2) (3)	CE	

^{*}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







Optional Information

(1) LAN & GPIB interface card & cables



(2) GPIB interface card & cable



(3) LAN 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

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

Front Panel Introduction



2 - 5kVA

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

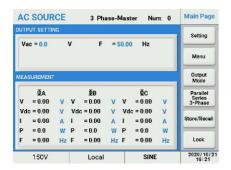
Front Panel Introduction

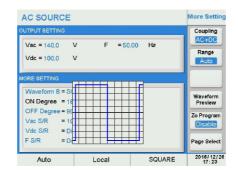


Function Introduction

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.

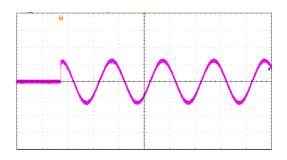




Settable ON/OFF Phase Angle of Output Waveform

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.

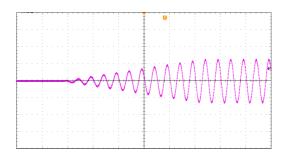




Slew Rate Setting For Voltage and Frequency

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.

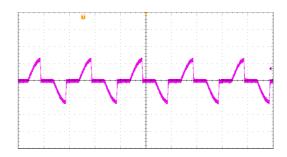




Triac Dimmer Function

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.

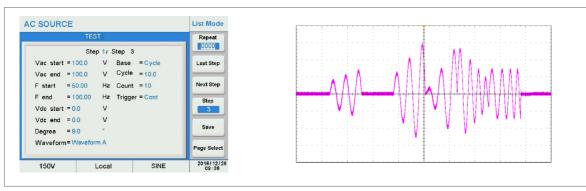




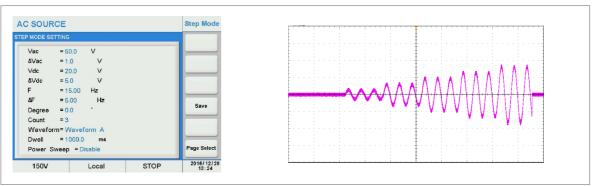
Power Line Disturbance Simulation

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.

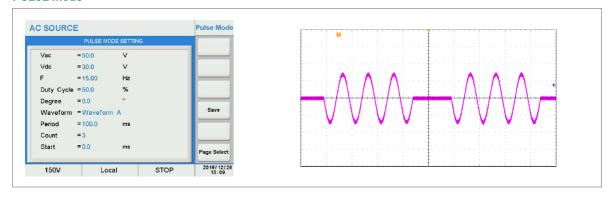
LIST Mode



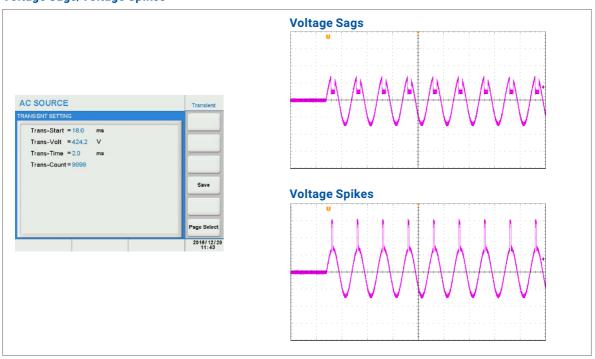
STEP Mode



PULSE Mode

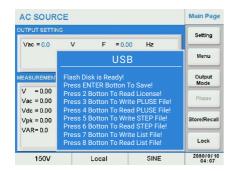


Voltage Sags/Voltage Spikes



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.



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

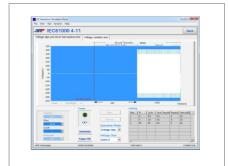
Login Interface



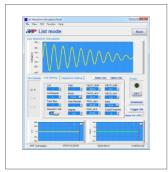
Basic mode(Main interface)



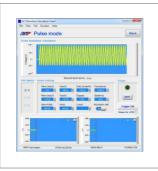
IEC61000 4-11 interface



List mode interface



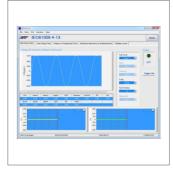
Pulse mode interface



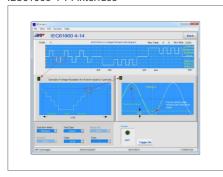
Step mode interface



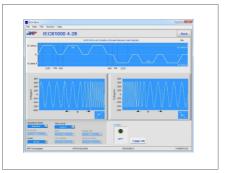
IEC61000 4-13 interface



IEC61000 4-14 interface



IEC61000 4-28 interface



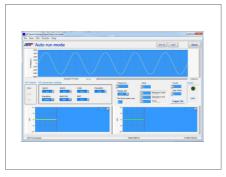
Synthesis mode interface



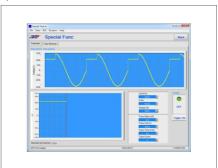
Harmonics Measure mode interface



Auto run mode interface



Special Func interface



MODEL		SPST300VAC1800W-2-9	SPST300VAC3000W-2-9	SPST300VAC4500W-2-9					
Voltage		90~265VAC	100~265VAC						
Frequency		47~63Hz							
Phase		3 Phase, 4Wire+Groud/Y Connect							
Max.Current		30A 45A		57A					
Power Factor	Sillings	≥ 0.96 Active PFC ≥ 0.98 Active PFC		≥ 0.98 Active PFC					
at 220VAC Input,F	uii Load	>81% (Peak) >85.5% (Peak) >85.8% 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	output,Full Load utput Mode(Per Phase)	output, i un coau					
AC Power(Total)			· · · · · · · · · · · · · · · · · · ·	4500//4					
AC Power(Per Pha	>	1800VA	3000VA	4500VA					
AC Power(Per Pri		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					
		1-Ph	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					
DC Power (Per Pha	0~300V(H)	43.4/A 1620W	74.5ZA 2700W	111.78A 4050W					
· · · · · · · · · · · · · · · · · · ·	use)	L 10.69A	L 17.55A	4050W L 26.35A					
Max.Current (Total)									
(Total)		H 5.1A	H 8.9A	H 13.18A					
		3-Phase Or	utput Mode(Per Phase)						
Total Harmonic Distortion (THD) Crest Factor(CF)		<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	Dongo								
Voltage(AC)	Range Resolution	0~300VAC, 150V/300V/Auto Mode 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.							
2220	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							
		The state of the s	er Function(Per Phase)						
Trannonic & intern		Power Met	er ranction(rei rilase)						
Transforme & Interna									
Tramonic & intern	Range	AC 0~300VAC							
Voltage		AC 0~300VAC DC 0~424VDC							
	Range Resolution Accuracy	AC 0~300VAC							

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									
	D	H 0.15A~5.6A	H 0.3A~9.2A	H 0.3A~13.8A							
Current ^[2]	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~82.8A								
Current ^[2] (Peak)	Resolution	0.01A									
(, 54.1)	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									
Class Data	Danas	AC Voltage 0.001~1200.000V/ms and Disable									
Slew Rate	Range	DC Voltage 0.001~1000.000V/ms and Disable									
Damata Canaa	Danasa	Frequency 0.001~1600.000Hz/ms and Disable									
Remote Sense Calibration	Range	5V(rms), Max. Total power less than ra									
Test Function		Firmware-based calibration through the digital interface or front panel display									
		Not Support 4.2° Color touch LCD									
Graphic Display		4.3* Color touch LCD Soft key, Numberic key, Rotary Knob, USB port for transfer and upgrading firmware									
Operation Key Fe											
Rack mount Hand	iles	Yes									
FAN		Temperature Control									
Protection Circuit	S	OCP, OVP, OPP, OTP, RCP, PRI_OVP, PRI_OTP, PRI_OCP, USB_OCP									
Interface		Standard USB, RS-485, RS-232, GPIB & LAN is Optional Environmental									
Operating Tempe	rature	0°C~40°C									
Storage Tempera	ture	-40°C~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(WxHxD)		540.0x400.0x640.0 mm									
Package Dimensions (WxHxD)		660.0x710.0x760.0 mm									
Unit Weight		88.7kg									
Shipping Weight		108.7kg									
		-	Regulatory Compliance								
CE Mark		Installation Overvoltage Category II;Cla	ss II equipment;indoor use only.								

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

^[2] The tolerance will change slightly in high frequency condition;

All specifications are subject to change without notice.

MODEL		SPST300VAC6000W-3-17	SPST300VAC9000W-4-17	SPST300VAC12000W-4-17	SPST300VAC15000W-4-17					
, h		400.065)40	Input							
/oltage		190~265VAC								
requency		47~63Hz								
Phase		3 Phase, 4Wire+Groud/Y Connect	COA	754	004					
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					
			3-Phase Output Mode(Per Phase	se)						
C Power(Tota	al)	6000VA	9000VA	12000VA	15000VA					
AC Power(Per	Phase)	2000VA	3000VA	4000VA	5000VA					
/lax.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					
			1-Phase Output Mode							
AC Power(Tota	al) ^[1]	5400VA	8100VA	10800VA	13500VA					
/lax.Current	0~150V(L)	43.2A	74.52A	86.4A	124.2A					
r.m.s)	0~300V(H)	21.6A	37.26A	43.2A	62.1A					
Max.Current	0~150V(L)	216A	447.12A	432A	496.8A					
Peak)	0~300V(H)	108A	223.56A	216A	248.4A					
OC Power (Per	Phase)	5400W	8100W	10800W	13500W					
Max.Current		L 30.51A	L 52.92A	L 61A	L 88A					
(Total)		H 15.26A	H 26.46A	H 30.51A	H 44A					
			3-Phase Output Mode(Per Phas	se)						
		<0.5% (Resistive Load) at 15.0~70.0Hz	z and output voltage within the 80~140VAC	at Low Range or the 160~280VAC at High I	Range;					
Total Harmonic Distortion (THD)		<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;								
Crest Factor(C	F)	≤5	≤6	≤5	≤4					
Load Regulation		±0.2%F.S. (Resistive Load) at 15~100Hz ±0.5%F.S. (Resistive Load) at >100Hz								
ine Regulation	1	± 0.1V	12							
ine regulation	Range	0~300VAC, 150V/300V/Auto Mode								
Voltage(AC)	Resolution	0.1V	•							
(L-N)			a. 2V							
	Accuracy	0.2% of setting +0.4%F.S at Voltage	3>3 V							
	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								
	DC Power	2000W	3000W	4000W	5000W					
'oltage(DC)	Max.Current	L 11.3A	L 19.6A	L 22.6A	L 32.6A					
onage(DC)		H 5.65A	H 9.8A	H 11.3A	H 16.3A					
	Ripple&Noise (Peak)	L <700mVrms @Bandwidth 20Hz to 1MHz H <1100mVrms @Bandwidth 20Hz to 1MHz								
	Ripple&Noise (r.m.s)	<4000mVp-p @Bandwidth 20Hz to	1MHz							
	Resolution	0.01A								
urrent CC	Accuracy	2.0% of setting +1.0%F.S.								
old Mode	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		-	-							
Harmonic & Int		Not Support								
Simulation		Not Support	Dower Meter Francisco (D							
		AC 0 200VAC	Power Meter Function(Per Phase	se)						
	Range	AC 0~300VAC								
/oltage	Description of the second	DC 0~424VDC								
	Resolution	0.1V								
3 .	Accuracy	0.2% of setting +0.4%F.S. (Peak: 0.								

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	0.1Hz(15.0~99.9Hz),1Hz(100~1000Hz)									
	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 ^[2]	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 ^[2] (Peak)	Resolution	0.01A										
(reak)	Accuracy	0.4%+1.5%FS.										
	Range	0~2040W	0~3060W	0~4080W	0~5100W							
Power	Resolution	0.1W										
	Accuracy	0.4% of setting +0.3%F.S. 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	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 and Disable										
		Frequency 0.001~1600.000Hz/ms and Disable										
Remote Sense	Range	5V(rms), Max. Total power less than rated power										
Calibration		Firmware-based calibration through the digital interface or front panel display										
Test Function		Not Support										
Graphic Display		5.6" Color touch LCD										
Operation Key F		Soft key, Numberic key, Rotary Knob, USB port for transfer and upgrading firmware										
Rack mount Har	ndles	Yes										
FAN		Temperature Control										
Protection Circu	its	OCP, OVP, OPP, OTP, RCP, PRI_UVP, PRI_OVP, PRI_OCP, USB_OCP										
Interface		Standard USB, RS-485, RS-232, GPIB & LAN is Optional										
			Environmental									
Operating Temp		0°C~40°C										
Storage Temper	ature	-40°C~85°C										
Altitude		2000m										
Relative Humidity		5%~95%, non-condensing										
Temperature Co	efficient	100ppm/°C at Voltage, 300ppm/°C at Current,100ppm/°C at Frequency										
Dimensions(Wy	-lvD)	F60 0v7F4 0v700 0 maga	Mechanical									
Dimensions(Wxl		560.0x754.0x700.0 mm										
Package Dimens	SIONS (WXHXD)	680.0x1146.0x820.0 mm										
Unit Weight		134.0kg	157.0kg	157.0kg	157.0kg							
Shipping Weight		173.0kg	195.0kg	195.0kg	195.0kg							
OF Mari		In shall sting Over 11 Over 11	Regulatory Compliance									
CE Mark		Installation Overvoltage Category II;Class II equipment;indoor use only.										

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

^[2] The tolerance will change slightly in high frequency condition;

All specifications are subject to change without notice.



APM Technologies Ltd

Add: #7, Link Industry Park, Kechuang Road, Nancheng, Dongguan, Guangdong, China

Tel: +86 769-2202 8588 ext: 2892 Fax: +86 769-2202 6771
E-mail: overseas@apmtech.cn Web: www.apmtechate.com





Scan the QR code for more information