



Purpose :

- Copy Machine
- Currenty Machine
- Robot
- Wrapping Machine
- Electric Distributor
- Microwave Oven
- Micro Computer
- CNC Lathe
- Motor Control
- Office Wave
- Video Game
- Temperature Regulator
- Auto Vending Machine
- Control Equipment
- UPS, AVR
- Traffic Signal Control

Features :

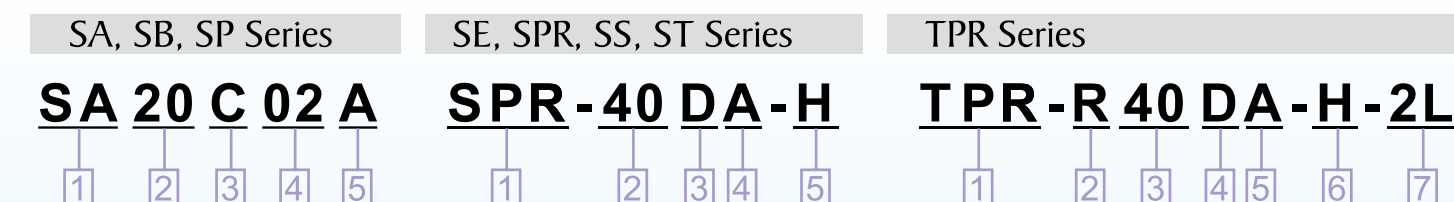
- High Reliability, Long Life
- Safety
- Low Input Power Consumption
- No Contact Points
- No Switching Sparks
- No Noise
- No Mechanical Damage
- Need No Maintenance
- Need No Mechanical Motion, Electronic Devices
- Fast Reaction, Fits In High Frequency Motions

Specification :

- (1) Category : DC/AC, Single SSR, 3 Phase 3 Line, 3 Phase 2 Line
- (2) SIP Type : Apply to PCB welding
- (3) Panel Mount Type : Apply two screw to fix.
- (4) I/O Module Type : Apply many kind of I/O to control
- (5) High-Tension : Load voltage can to 480VAC, 1200V peak
- (6) Electricity : Max load current to 125A
- (7) 3 Phase SSR : To control 3 Phase motor & temperature, load voltage to 480VAC

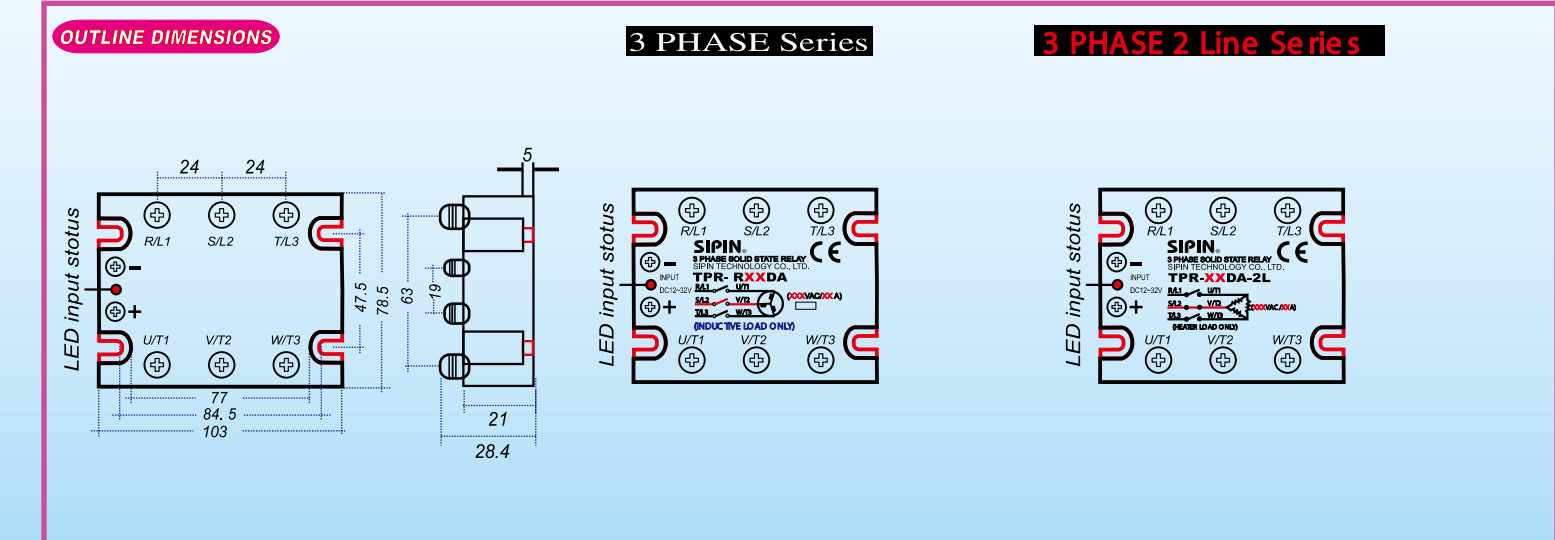
Model No. Descriptions:

SIPIN's Model No. of SSR show special implication, the user can easily choose what they want from reading the model number. The following is the unified example to help users read the model number.



- | | | |
|---|---|--|
| <p>SA, SB, SP Series</p> <p>SA 20 C 02 A</p> <p>1 SA, SB : DC to AC TYPE
SP : DC to DC TYPE</p> <p>2 The Output Voltage :
06: 60VDC
10: 100VDC / 120VDC
20: 200VDC / 240VDC / 280VDC
40: 480VAC</p> <p>3 Switching TYPE:
C: Zero Cross
Non: N/A</p> <p>4 The Output Current:
02 = 2A, 03 = 3A
04 = 4A, 05 = 5A
06 = 6A</p> <p>5 A : AC output
D : DC output</p> | <p>SE, SPR, SS, ST Series</p> <p>SPR-40 DA-H</p> <p>1 SE, SPR, SS, ST :
Single phase solid state relay</p> <p>2 The Output Current :
02: 02A 04: 4A 10: 10A
25: 25A 40: 40A 75: 75A
100:100A 125: 125A</p> <p>3 The Input Voltage:
D: 3 ~ 32VDC
A: 80 ~ 280VAC
L: 4 ~ 20mA or 0 ~ 10VAC
V: VR 0 ~ 500kΩ or VR 0 ~ 1MΩ</p> <p>4 The Input Voltage:
A : AC output Voltage
D : DC output Voltage</p> <p>5 The Output Voltage Range:
H: high Voltage Type 48 ~ 480VAC
Non : Standard Type 24 ~ 280VAC</p> | <p>TPR Series</p> <p>TPR-R 40 DA-H-2L</p> <p>1 TPR : Three phase solid state relay</p> <p>2 Non : Zero Cross
R : Random Switching</p> <p>3 The Output Current :
25: 25A 40: 40A 50: 50A
75: 75A 90: 90A 100: 100A 125: 125A</p> <p>4 The Input Voltage:
D: 5 ~ 32VDC, 6 ~ 32VDC, 10 ~ 32VDC, 12~32VDC.
A: 80 ~ 280VAC</p> <p>5 The Output Voltage:
A : AC Output Voltage
D : DC Output Voltage</p> <p>6 The Output Voltage Range:
H: high Voltage Type 48 ~ 480VAC
Non : Standard Type 24 ~ 280VAC</p> <p>7 Non : 3 phase 3 line series
2L : 3 phase 2 line series</p> |
|---|---|--|

TPR	3 PHASE Series			3 PHASE 2 Line Series				
	Heater Load Only							
	TPR-25DA TPR-125DA	TPR-25DA-H TPR-125DA-H	TPR-25AA TPR-125AA	TPR-25AA-H TPR-125AA-H	TPR-25DA-2L TPR-125DA-2L	TPR-25AA-2L TPR-125AA-2L		
	Inductive Load Only							
	TPR-R25DA TPR-R125DA	TPR-R25DA-H TPR-R125DA-H	TPR-R25AA TPR-R125AA	TPR-R25AA-H TPR-R125AA-H	TPR-R25DA-2L TPR-R125DA-2L	TPR-R25AA-2L TPR-R125AA-2L		
INPUT	Control Voltage Range		6-32VDC	12-32VDC	80-280VAC	5-32VDC	10-32VDC	80-280VAC
	Must Turn Off Voltage		Max 3.0VDC		Max 10 VAC	Max 3.0VDC		Max 10 VAC
	Input Timpedance 1.5 Kohm							
	Max Load Current 25A,40A,50A, 75A, 90A, 100A , 125A							
	Load Voltage Range		24-280VAC	48-480VAC	24-280VAC	48-480VAC	24-280VAC	48-480VAC
OUTPUT	Blocking Voltage		600VAC _{peak}	1200VAC _{peak}	600VAC _{peak}	1200VAC _{peak}	600VAC _{peak}	1200VAC _{peak}
	Max Off-State Leakage Less 10mA							
	Max 1-cycle Peak Surge 250A,400A,500A, 750A, 900A, 1000A , 1250A							
	Max Off State dv/dt		500V/μs-SEC	1000V/μs-SEC	500V/μs-SEC	1000V/μs-SEC	500V/μs-SEC	1000V/μs-SEC
GENERAL RATING	Isolate Impedence 10 ⁹ ohm							
	Dielectric Strength Input-Output 4000VAC rms							
	Dielectric Strength Input , Output - Case 2500VAC rms							
	Turn On Time Less 2m SEC							
	Turn Off Time Less 1/2AC cycle							
	Frequency Range 47~70Hz							
	Operating Temperature -20° ~ 80°C							
	Switching Type C:Zero Cross R:Random Switching							
	Weight (g) 600g							



ACCESSORIES
HEAT SINK

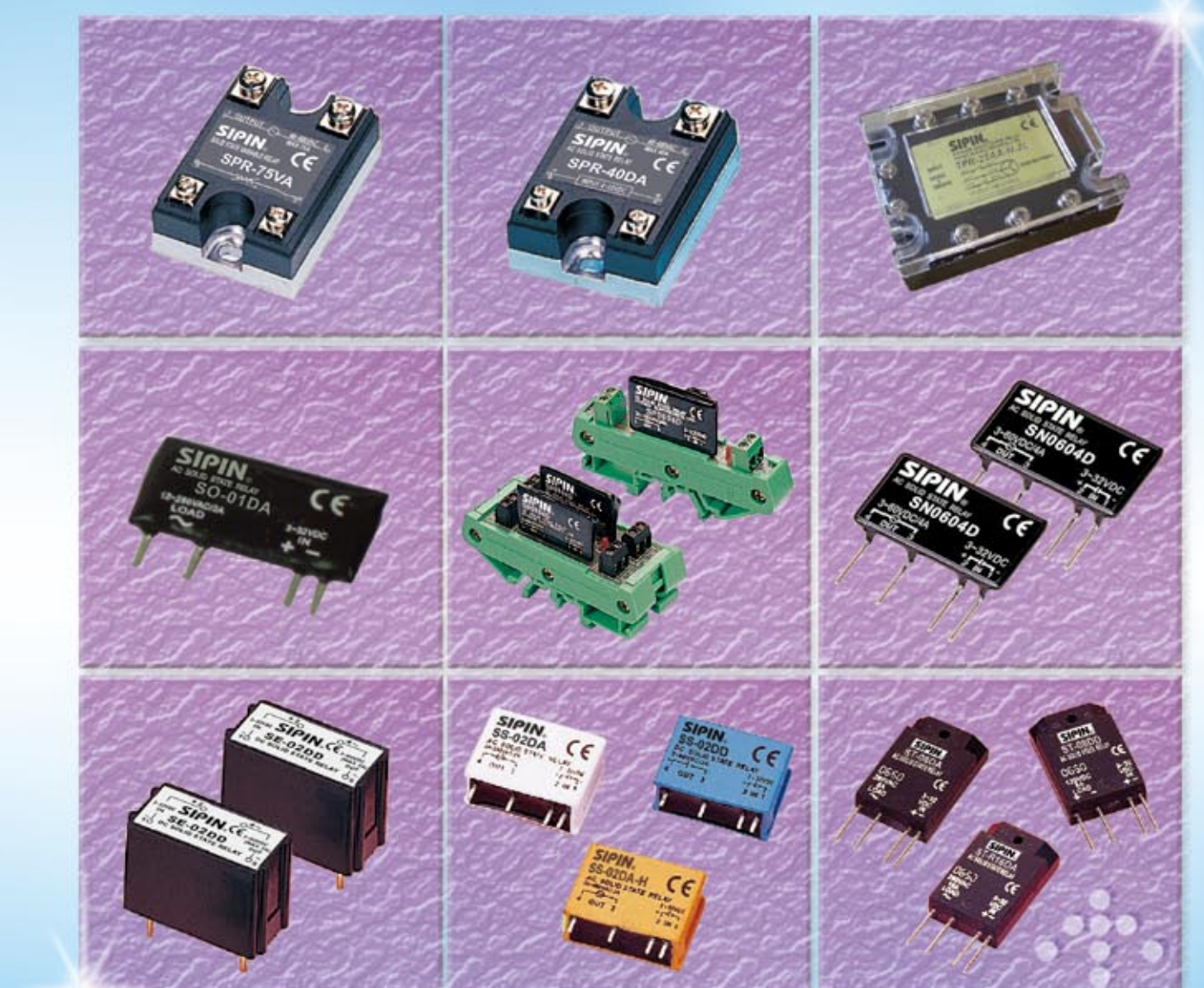
Appearance	Size	Suitable Specification	Appearance	Size	Suitable Specification
	Size : 60mm X 60mm 	Model No Length L(mm) Suitable SSR HS060-50 60 5A, 10A		Size : 81mm X 81mm 	Model No Length L(mm) Suitable SSR HS100-45 45 40A HS100-70 70 50A HS100-100 100 75A HS100-120 120 90A HS100-150 150 100A,125A
	Size : 60mm X 60mm 	Model No Length L(mm) Suitable SSR HS060-50 50 10A,15A HS060-80 80 25A HS060-100 100 40A HS060-120 120 50A HS060-150 150 75A		Size : 81mm X 81mm 	HS104 Series FOR 3 PHASE SSR Model No Length L(mm) Suitable SSR HS104-104 104 25A, 40A HS104-120 120 50A HS104-150 150 75A HS104-200 200 90A,100A,125A <small>Note: It will depend on condition of discharge heat to add Pin to meet given formula.</small>
	Size : 70mm X 70mm 	Model No Length L(mm) Suitable SSR HS080-50 50 25A HS080-100 100 40A HS080-150 150 50A		Size : 150mm X 35mm 	HS197 Series FOR 3 PHASE SSR Model No Length L(mm) Suitable SSR HS 120-80 80 25A , 40A HS 120-100 100 50A HS 120-120 120 75A HS 120-150 150 90A ,100A,125A
	Size : 104mm X 80mm 	Model No Length L(mm) Suitable SSR HS 120-80 80 25A , 40A HS 120-100 100 50A HS 120-120 120 75A HS 120-150 150 90A ,100A,125A			

Note: The good environment that this product needs to be used for dispersion the heat, there are special-purpose HEAT SINK in our company, quality is excellent, for the customer to select for use.



AUTHORIZED DISTRIBUTOR:
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SIPIN®
SOLID STATE RELAY
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**For The Application
To Industrial Automation
& High Quality Design**

Note:

The SSR proposes using in 40°C of working environment, increase by 1.25 amps each time, working environment temperature will increase by 10°C, 80°C of supreme upper limit.

INPUT

OUTPUT

GENERAL RATING

	SPR				SPR				SPR		SA	SE	SB		SP	SM	SN	I/O Module			SO	SS			ST																						
	CURRENT-VAC		DC-AC		VR-AC	VR-AC	DC-DC		AC-AC		AC-DC		DC-AC	DC-DC	DC-AC	DC-DC	AC-AC	AC-DC	1, 2, 4, 8 Port			DC-AC	DC-AC	DC-DC	DC-AC	DC-AC	DC-DC																				
	SPR-10LA SPR-15LA SPR-25LA SPR-40LA SPR-50LA SPR-75LA SPR-90LA	SPR-10LA-H SPR-15LA-H SPR-25LA-H SPR-40LA-H SPR-50LA-H SPR-75LA-H SPR-90LA-H	SPR-10DA SPR-15DA SPR-25DA SPR-40DA SPR-50DA SPR-75DA SPR-90DA SPR-100DA SPR-125DA	SPR-10DA-H SPR-15DA-H SPR-25DA-H SPR-40DA-H SPR-50DA-H SPR-75DA-H SPR-90DA-H SPR-100DA-H SPR-125DA-H	SPR-10-VA SPR-15-VA SPR-25-VA SPR-40-VA SPR-50-VA SPR-75-VA SPR-90-VA	SPR-25-VA-H SPR-40-VA-H SPR-50-VA-H SPR-75-VA-H SPR-90-VA-H	SPR-05DD SPR-10DD SPR-25DD SPR-40DD SPR-50DD SPR-75DD	SPR-10DD-H SPR-25DD-H SPR-40DD-H SPR-50DD-H SPR-75DD-H	SPR-10AA SPR-15AA SPR-25AA SPR-40AA SPR-50AA SPR-75AA SPR-90AA SPR-100AA SPR-125AA	SPR-10AA-H SPR-15AA-H SPR-25AA-H SPR-40AA-H SPR-50AA-H SPR-75AA-H SPR-90AA-H SPR-100AA-H SPR-125AA-H	SPR-10AD SPR-25AD	SPR-10AD-H SPR-25AD-H	SA20C02A SA20C04A	SE-02DD SE-04DD	SE-02DD-H SE-04DD-H	SB20C02A SB20C03A SB20C04A SB20C05A SB20C06A	SB40C02A SB40C03A SB40C04A SB40C05A SB40C06A	SP0602D SP0604D	SM20C02A SM20C04A SM20C06A	SN0602D SN0604D	I/O-1- SB20C04A I/O-2- SB20C04A I/O-4- SB20C04A I/O-8- SB20C04A	I/O-1- SP0604D I/O-2- SP0604D I/O-4- SP0604D I/O-8- SP0604D	SO-01DA SO-02DA	SS-02DA	SS-02DA-H	SS-02DD	ST-08DA ST-12DA ST-16DA	ST-R08DA ST-R12DA ST-R16DA	ST-08DD ST-12DD ST-16DD																		
Control Voltage Range	4~20mA or 0~10VDC				4~32 VDC				VR 0 ~500 KΩ		VR 0 ~1 MΩ		3~32VDC		4~32VDC		80~280VAC		80~280 VAC		80~280 VAC		3~32VDC		3~32VDC		3~32VDC		3~32VDC			3~32VDC															
Must Turn Off Voltage	Max 3.0VDC				Max 1.0VDC				—		—		Max 1.0VDC		Max 10 VAC		Max 10 VAC		Max 10 VAC		Max 1.0VDC		Max 1.0VDC		Max 1.0VDC		Max 1.0 VAC		MAX 1.0VDC		MAX 1.0VDC		MAX 1.0VDC		MAX 1.0VDC												
Input Timpeance	1.5 Kohm				1.5 Kohm				1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm		1.5 Kohm														
Max Load Current	10A, 15A, 25A, 40A, 50A, 75A, 90A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A		5A, 10A, 25A, 40A, 50A, 75A		10A, 15A, 25A, 40A, 50A, 75A, 90A, 100A, 125A		10A, 25A		10A, 25A		2A / 4A		2A, 4A		2A, 4A		2A, 3A, 4A, 5A, 6A		2A / 4A		2A, 4A, 6A		2A, 4A		4A		4A		1A, 2A		2A		2A		8A, 12A, 16A			8A			
Load Voltage Range	24~280VAC		48~480VAC		24~280VAC		48~480VAC		24~280VAC		48~480VAC		5~120VDC		5~240VDC		24~280VAC		48~480VAC		24~280VAC		3~60VDC		24~280VAC		3~60VDC		24~280VAC		3~60 VDC		12~280VAC		24~280VAC		48~480VAC		3~60VDC		24~280VAC		3~120VDC				
Min. Blocking Voltage	600VAC peak		1200VAC peak		600VAC peak		1200VAC peak		600VAC peak		1200VAC peak		140VDC		300 VDC		600VAC peak		1200VAC peak		140VDC		300VDC		600VAC peak		1200VAC peak		80 VDC		600VAC peak		80 VDC		600VAC peak		600VAC peak		600VAC peak		600VAC peak		600VAC peak		600VAC peak		
Max Off-State Leakage	Less 3mA		Less 5mA		Less 3mA		Less 5 mA		Less 3mA		Less 5 mA		Less 2mA		Less 3 mA		Less 3mA		Less 5mA		Less 3mA		Less 5mA		Less 2 mA		Less 5 mA		Less 2mA		Less 5 mA		Less 2mA		Less 3mA		Less 3 mA		Less 5 mA		Less 1 mA		Less3 mA		Less 2 mA		
Max 1-cycle Peak Surge	100A, 150A, 250A, 400A, 500A,		100A, 150A, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A		100A, 150A, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A		100A, 150A, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A		25A, 50A, 100A, 200A, 250A, 375A		50A, 100A, 200A, 250A, 375A		100A, 150, 250A, 400A, 500A, 750A, 900A, 1000A, 1250A		15A, 35A		15A, 35A		20A / 40A		3A , 8.5A		20A, 30A, 40A, 50A, 60A		3A , 8.5A		20A, 40A, 60A		3A , 8.5A		40A		40A		10A, 20A		20A		20A		80A, 120A, 160A		12A				
Max Off State dv/dt	500 V/μSEC		1000 V/μSEC		500 V/μSEC		1000 V/μSEC		500V/μSEC		1000V/μSEC		100V/μSEC		200V/μSEC		500 V/μSEC		1000 V/μSEC		100V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC		200V/μSEC				
Isolate Impedence	10 ⁹ ohm				10 ⁹ ohm				10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm		10 ⁹ ohm						
Dielectric Strength Input-Output	4000VAC rms				4000VAC rms				—		—		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms						
Dielectric Strength Input, Output-Case	4000VAC rms				4000VAC rms				4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms		4000VAC rms				
Turn On Time	Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		Less 2m SEC		
Turn Off Time	Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 2m SEC		Less 2m SEC		Less 1/2AC cycle		Less 2m SEC		Less 2m SEC		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		Less 1/2AC cycle		
Frequency Range	47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		47~70Hz		
Operating Temperature	-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		-20° ~ 80°C		
Switching Type	Phase Control		Zero Cross		N/A		N/A		N/A		Zero Cross		N/A		N/A		Zero Cross		N/A		N/A		Zero Cross		N/A		Zero Cross		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		Zero Cross / Ramdom Turn		
Weight (g)	100g		100g		100g		100g		100g		100g		95g		95g		15g		15g		12g		10g, 12g		12g		12g		12g		12g		12g		12g		12g		12g		12g		12g				

OUTLINE DIMENSIONS
(unit:mm)

