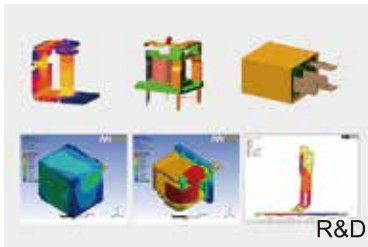




SOLAR RELAY

Used in photovoltaic solar energy systems (PV) and in UPS applications
Providing complete and reliable control solutions





R&D



Mold



Parts



Test



Quality



Manufacture

ABOUT HONGFA

The HONGFA GROUP of companies is a leading manufacturing and R&D enterprise in the Chinese relay industry.

Our production capacity exceeds 1.5 billion relays annually, more than 530,000m² of manufacturing space.

HONGFA's spirit is reflected by our mission to "persevere for progress, strive for excellence", while our operational practice is to be market-oriented and to win by supplying superior quality products.

Core products are electro-mechanical relays of various types, such as power, latching, signal, industrial, safety, HVDC, automotive and hermetically sealed relays. We offer over 160 relay families in 40-thousand different configurations.

HONGFA relays are exported to many of the world's most prestigious OEM's in more than 100 countries in automobile, industrial control, home appliance, telecommunication, security, aeronautics and astronautics applications and manufacturing.

Along with the expansion and continuous upgrading of our facilities, HONGFA is instrumental in the compilation and implementation of national standards, together with other key projects.

HONGFA is proud of its multi-agency-approved Test Center and its R&D Center. A post-doctoral Research Station has also been established, a first in our industry.

HONGFA is visionary to grow with all our global customers worldwide. It is our wish that our customers will benefit from our advancements in technology.



Product Development

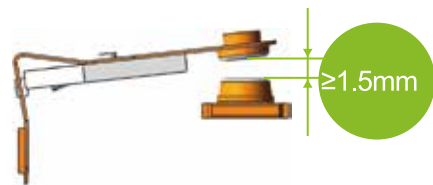
Solar relays are used in PV inverters (solar power, wind-generated electricity), UPS's, ATS and in other power supply control applications.

HONGFA has developed a complete series of solar relays to comply with environmental friendliness, low-carbon and green energy criteria, based on high technology.

The relays' technical features include wide open contact gaps ranging from 1.5 mm to 4.5mm, allowing the contacts to switch and carry high currents from 10A to 140A.

Product characteristics

- ◆ Wide open-contact gaps of 1.5mm-4.5mm ensure a complete breaking of high power loads, in compliance with VDE 0126 and IEC 62040 standards.
 - PV inverters convert the DC output of PV solar panels into utility frequency AC that can be fed into electrical grids connected to households. (Per VDE 0126 criteria)
 - In UPS applications, solar relays are used to safely switch-in circuit loops with stable voltages. (In compliance with IEC 62040-1 and IEC 60952-1 standards, particularly in the back-feed.)

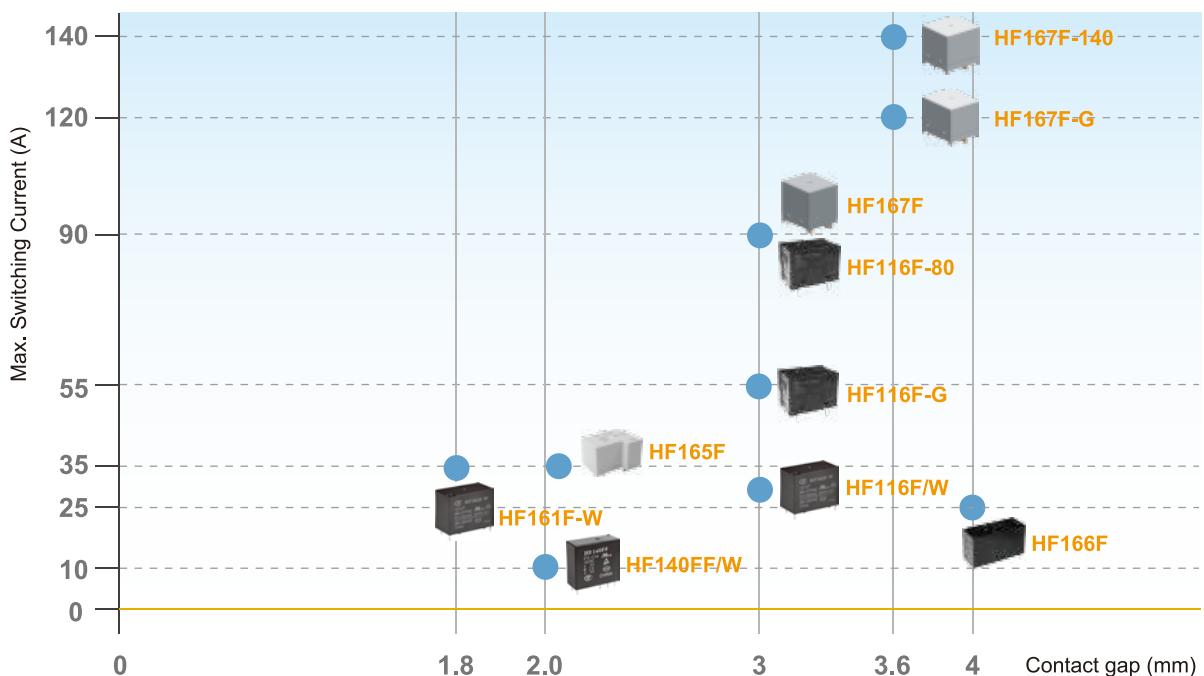


- ◆ Great dielectric strength between open contacts

Dielectric strength between open contacts: HF161F-W >4500Vac, HF166F > 5000Vac

- ◆ Reliable switching performance

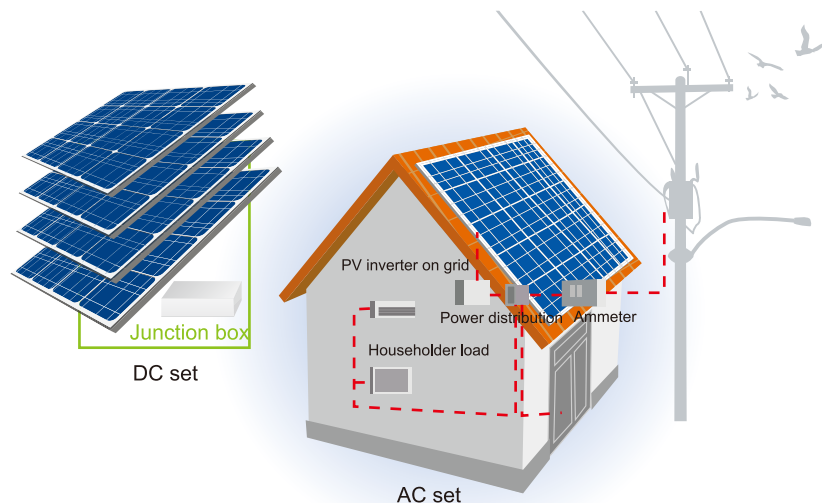
Relay types





PV system

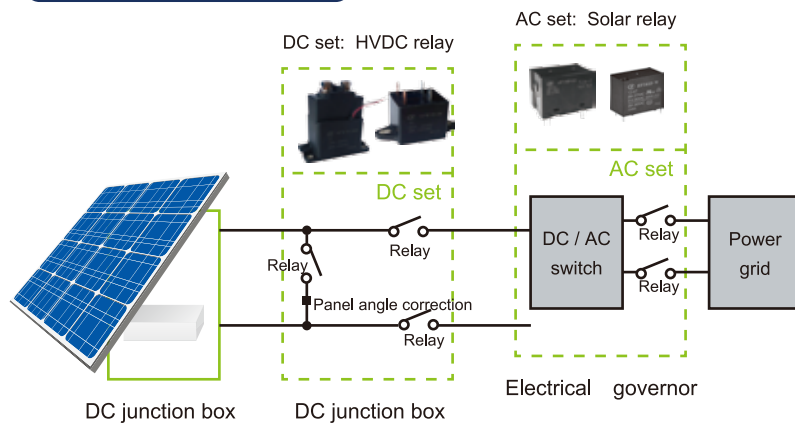
The basic function of a PV System is to convert solar power into electric energy. It is used in three areas: to provide power to a nonelectrical field; to store electric energy to be used in home electronics, like solar storage and solar street lighting; to be used in grid power supply.



A PV system includes a PV array, a storage battery, a controller and an inverter. Relays, as important components, are used in three ways:

- ◆ AC switch: PV inverter converts the DC output of a PV solar panel into a utility frequency AC that can be fed into electrical grid or used by households.
- ◆ DC switch: Used for high voltage DC loads to switch in a PV array and a storage battery.
- ◆ Supplementary function: Used for inverter overload protection(overcurrent, overvoltage detection), household or grid electricity statistics .

Application Diagram



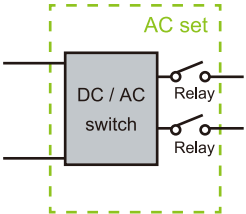
Hongfa has developed a very complete series of products. All have obtained safety certification and met VDE0126 and IEC62109 PV standards.

AC set: solar relay

Type	HF167F-G/-140	HF167F	HF116F-80	HF116F-G	HF165F	HF116F/W	HF161F-W	HF166F	HF140FF/W
									
Contact form	1 Form A	1 Form A	1 Form A	1 Form A 2 Form A	1 Form A	1 Form A 2 Form A	1 Form A	1 Form A + 1 Form B	1 Form A 2 Form C
Switched current	120A/140A	90A	80A	55A	35A	30A/25A	31A 33A	25A	10A
Contact gap	3.6mm	3mm	3mm	3mm	1.8 /2.1mm	3mm	1.5mm 1.8mm	4mm	1.5mm

Application

The relay in the AC set is used in the inverter part that can be fed into an electrical grid or used in households.



Standards compliance

According to IEC62109 (same as VDE126), relays used in PV systems have different requirements based on elevation, PV products (AC set) and DC parameters. But the basic requirement is a 1.5mm contact gap. More details are shown in the table.

PV system Voltage \ Elevation	below 2km	2km to 3km	above 4km
0.6kV	≥1.5mm	≥1.5mm	≥1.5mm
1kV	≥1.8mm	≥2.1mm	≥2.4mm
1.2kV	≥2.2mm	≥2.5mm	≥2.9mm
1.5kV	≥2.75mm	≥3.2mm	≥3.6mm

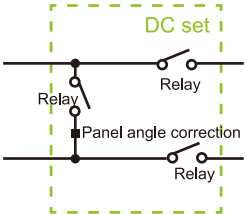
DC set: HVDC Relay

HFE18 (contact rating 10A-400A, 12VDC-1000VDC)

HFE18-600	HFE18-400	HFE18-300	HFE18-250	HFE18-200	HFE18-150	HFE18-100	HFE18-40	HFE18-20	HFE18-10
									
600A	400A	300A	250A	200A	150A	100A	40A	20A	10A

Application

The relay is in DC set, mounted in the DC junction box, storage battery and inverter. The function of the relay is to switch DC load.





UPS

A UPS consists of a converter, switch and an energy storage device (e.g., battery). When the input power fails, it can continue to provide power supply. It is mainly used in servers, storage, network equipment, communications equipment, automation equipment, precision instruments, medical equipment, etc.

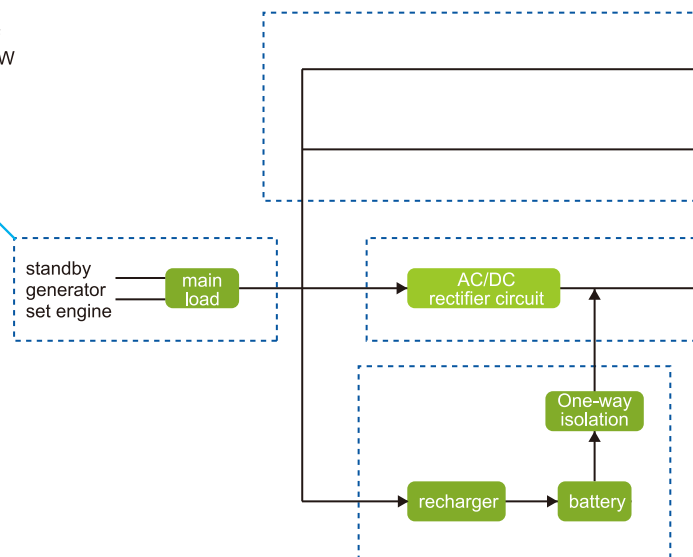
A UPS system is composed of a main tune, the bypass, batteries and other power input circuits. There is an AC/DC transformer, a rectifier (REC), DC/AC inverter, transformer (INV), inverter and the bypass switch output circuit and other parts. In UPS modules, relays are used as switching devices for power transmission and signal processing between modules.

Relay application solution

Main load

Recommended relay:
HF116F/W, HF140FF/W

Relay function:
Power switching
Safety isolation



Battery power supply switch

Recommended relay:
HF165FD, HF105F, HF140FF, HF14FW,
HF115F/ HF115FK, HF161F, HF102F, HF160F, HF3FA
Relay function:
Power switching

- Notes: 1、Please refer to ups wiring diagram.
2、For more details, please see the datasheet.
3、Above info for reference only. Contact Hongfa for more information.

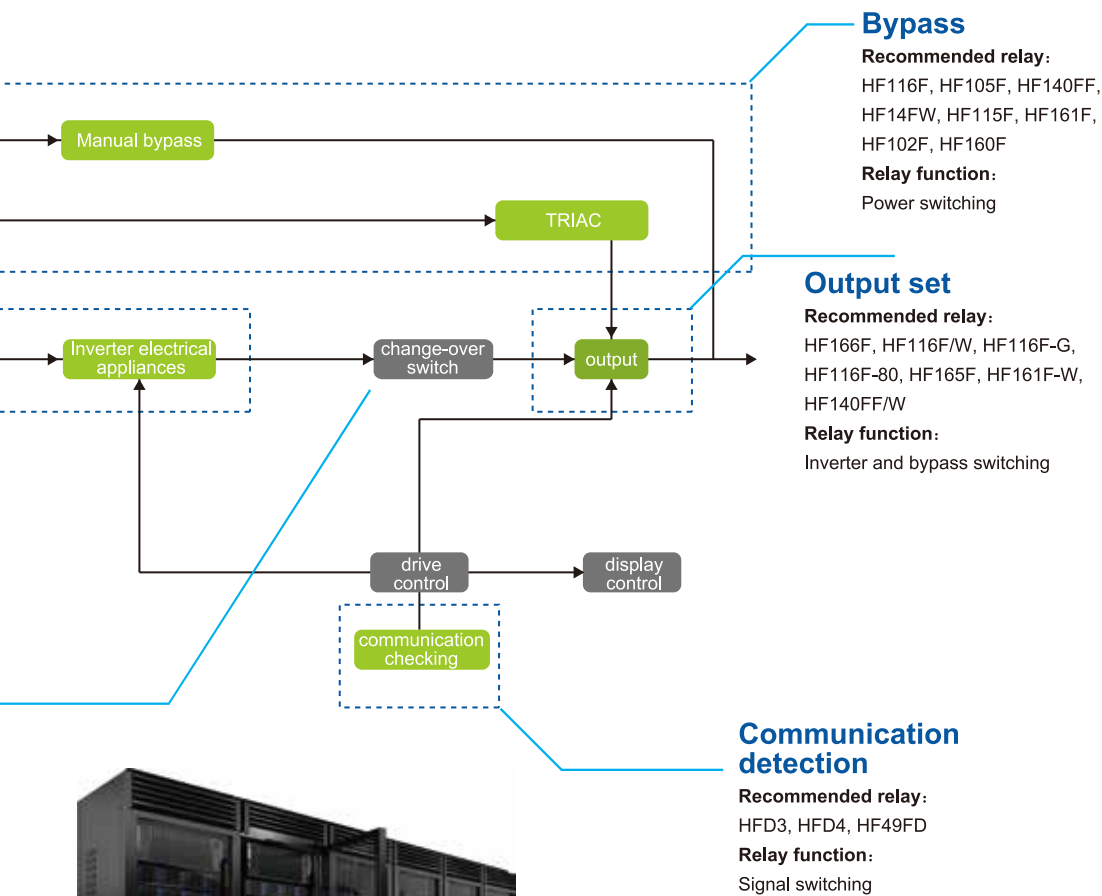
Solar relay (UPS system application)

Hongfa provides a complete series of products as application solutions in UPS, ATS, TPS and frequency transformer power supplies. Hongfa relays can be used for signal and power rate control from microampere to 300A and from millivolt to 1KV.

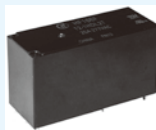
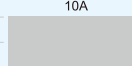
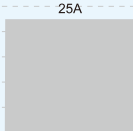
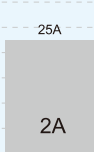
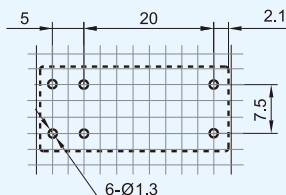
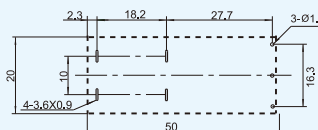
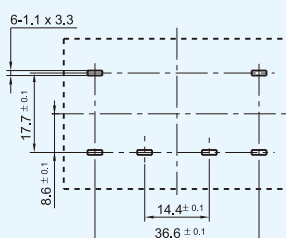
Different types of solar relays are recommended to different applications.

According to IEC62040-1-1 and IEC60950 safety standard requirements for UPS, the relay contact gap should be at least 1.7mm in a back feed application. Therefore, HF guarantees a contact gap of 1.8mm or greater for such usage.

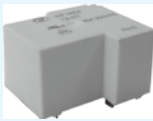
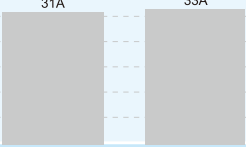
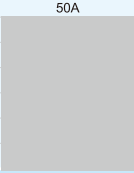
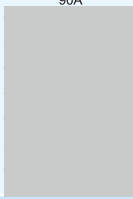
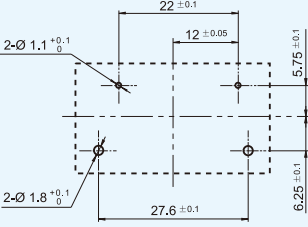
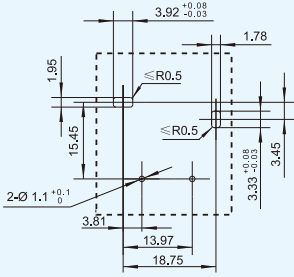
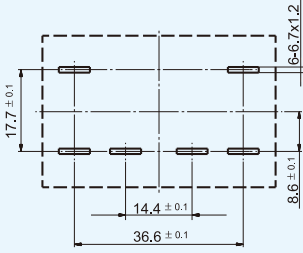
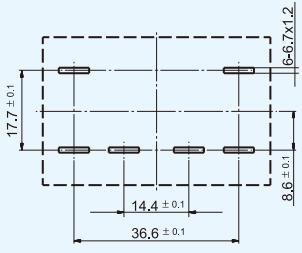
HF166F  4.0mm 25A	HF116F-80  3.0mm 90A	HF116F-G  3.0mm 50A	HF116F/W  3.0mm 30A
HF165F  2.1mm 35A	HF140FF/W  2.0mm 10A	HF161F-W  1.8mm 33A	



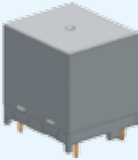
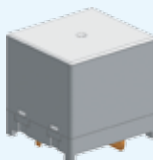
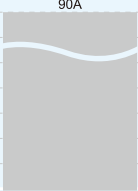
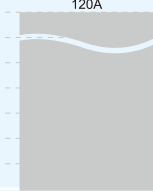
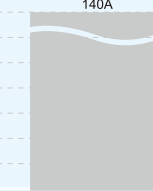
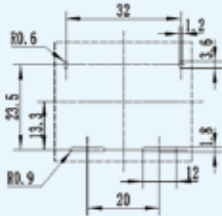
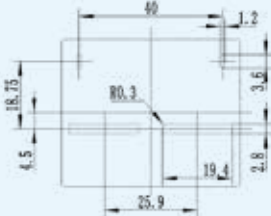
Solar Relay

Type	HF140FF		HF166F	HF116F/W	
					
Dimensions(L x W x H) mm	29.0 x 13.0 x 26.3		50.0 x 27.0 x 20.0	HF116F-1: 50.5 x 32.9 x 36.0 HF116F-2: 51.5 x 34.9 x 36.0 HF116F-3: 50.5 x 32.9 x 51.0	
Contact ratings					
Contact form	2A, 2C		1A +1B	1A	2A
Contact gap	1.5mm	2.0mm	4.0mm	3.0mm	
Contact material	AgSnO ₂ , AgNi, AgCdO		AgSnO ₂	AgSnO ₂ , AgCdO	
Max. switched current (res.load)	80A				
	50A				
	30A				
	20A				
	15A				
	10A				
5A					
					
Max. switching voltage	250VAC / 30VDC		277VAC	277VAC	
Max. switching power	2500VA / 240W		6925VA	8310VA	6925VA
Rated resistive load	5A/10A 250VAC 8A 30VDC		25A 277VAC	30A 240VAC 30A 277VAC	25A 240VAC 25A 277VAC
Coil ratings					
Nominal voltage	(3 to 60)VDC	(5 to 48)VDC	(5 to 48)VDC	(6 to 220/240)VAC / (3 to 200)VDC	
Nominal operating power	0.8W	1.4W	1.2W, 2.4W	2.7VA, 1.9W	
Specifications					
Insulation resistance	1000MΩ		1000MΩ	1000MΩ	
Dielectric strength (Between coil and contacts)	5000VAC		5000VAC	4000VAC	
Ambient temperature	-40°C to 85°C		-40°C to 85°C	-55°C to 70°C	
Operate / release time (max.)	15ms / 5ms		25ms / 25ms	30ms / 30ms	
Mechanical endurance (min. cycles)	5 x 10 ⁵ OPS	3 x 10 ⁵ OPS	6 x 10 ⁵ OPS	1 x 10 ⁷ OPS	
Electrical endurance (min. cycles)	1 x 10 ⁵ OPS		3 x 10 ⁴ OPS	1 x 10 ⁵ OPS	
Layout (bottom view)					
				(HF116F-1)	
Approved standards	UL/CUL TÜV CQC		UL/CUL TÜV	UL/CUL TÜV CQC	

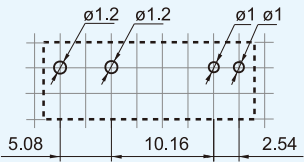
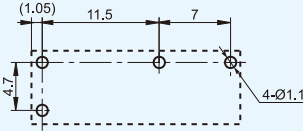
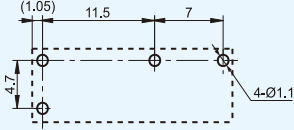
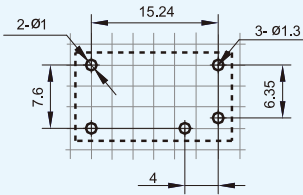
Note: Specifications for reference only. Contact HongFa for more information. Specifications subject to change without notice.

HF161F-W	HF165F		HF116F-G	HF116F-80
				
30.4 x 15.9 x 23.3	32.2 x 27.4 x 19.4		G1: 50.5 x 32.9 x 36.0 G2: 51.5 x 34.9 x 36.0 G3: 51.5 x 34.9 x 36.0	50.5 x 32.9 x 36.0
1A	1A		1A, 2A	1A
1.5mm	1.8mm	1.8mm	3.0mm	3.0mm
AgSnO ₂	AgSnO ₂		AgSnO ₂	AgSnO ₂
				
277VAC	277VAC		277VAC	60VDC/277VAC
7750VA	9695VA		13850VA	24930VA
26A 250VAC	35A 277VAC		50A 277VAC	80A 60VDC 90A 277VAC
(9 to 24)VDC	(5 to 48)VDC		(3 to 48)VDC	(3 to 48)VDC
1.4W	2.25W		3.2W	3.2W
1000MΩ	1000MΩ		1000MΩ	1000MΩ
4500VAC	4000VAC		4000VAC	4000VAC
-40°C to 85°C	-40°C to 85°C		-40°C to 85°C	-40°C to 85°C
20ms / 20ms	15ms / 10ms		30ms / 30ms	30ms / 30ms
1 x 10 ⁶ OPS	1 x 10 ⁶ OPS		1 x 10 ⁶ OPS	1 x 10 ⁶ OPS
3 x 10 ⁴ OPS	3 x 10 ⁴ OPS		3 x 10 ⁴ OPS	1 x 10 ³ OPS
				
UL/CUL VDE CQC	UL/CUL VDE	Pending	Pending: UL/CUL TÜV	Pending: UL/CUL TÜV

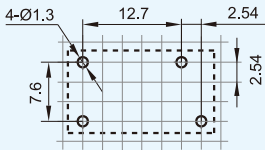
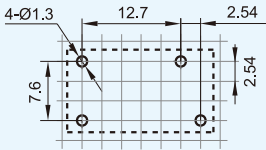
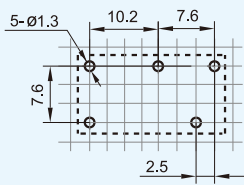
Power Relay

Type	HF167F NEW	HF167F-G NEW	HF167F-140 NEW
			
Dimensions(L x W x H) mm	33.0 x 38.0 x 39.5	50.0 x 41.0 x 43.0	45.0 x 41.4 x 43.0
Contact ratings			
Contact form	1A	1A	1A
Contact material	AgNi	AgNi	AgSnO ₂ , AgNi
Max. switched current (res.load)			
Max. switching voltage	400VAC	800VAC	400VAC
Max. switching power	25920VA	72000VA	56000VA
Rated resistive load	90A / 288VAC	120A / 480VAC	Making 40A,carrying 120A, breaking 40A,400VAC,85℃,10k
Coil ratings			
Nominal voltage	(6 to 24)VDC	(6 to 24)VDC	(6 to 24)VDC
Nominal operating power	1.92W	1.92W	1.92W
Specifications			
Insulation resistance	1000MΩ(500VDC)	1000MΩ(500VDC)	1000MΩ(500VDC)
Dielectric strength (Between coil and contacts)	5000VAC	5000VAC	5000VAC
Ambient temperature	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃
Operate / release time (max.)	30ms / 10ms	30ms / 10ms	30ms / 10ms
Mechanical endurance (min. cycles)	1 x 10 ⁶ OPS	1 x 10 ⁶ OPS	1 x 10 ⁶ OPS
Electrical endurance (min. cycles)	3 x 10 ⁴ OPS	1 x 10 ³ OPS	Making 40A,carrying 120A, breaking 40A,400VAC,85℃,10k
Layout (bottom view)			
Approved standards	UL/CUL TÜV VDE	UL/CUL VDE	UL/CUL TÜV

Note: Specifications for reference only. Contact HongFa for more information. Specifications subject to change without notice.

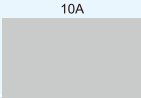
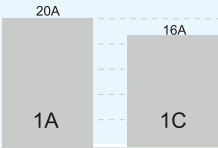
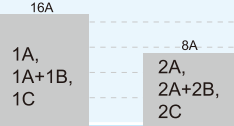
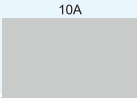
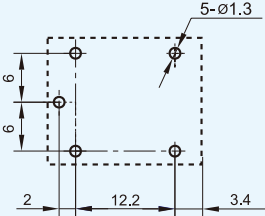
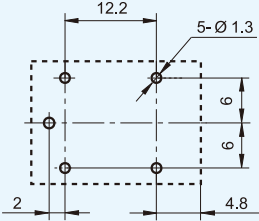
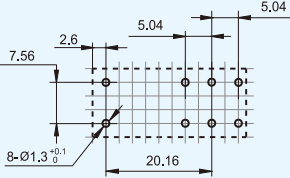
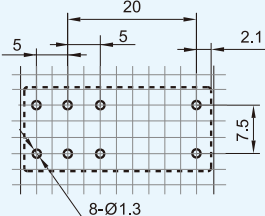
HF49FD	HF46F	HF46F-G	HF32FA
			
20.0 x 5.0 x 12.5	20.5 x 7.2 x 15.3	20.5 x 7.2 x 15.3	17.6 x 10.1 x 12.3
1A	1A	1A	1A, 1C
AgSnO ₂ , AgNi	AgSnO ₂ , AgNi	AgSnO ₂ , AgNi	AgNi
5A	5A	7A	5A 1A 3A 1C
250VAC / 30VDC	277VAC / 30VDC	277VAC / 30VDC	250VAC / 30VDC
1250VA / 150W	1385VA / 150W	2770VA / 300W	1250VA / 150W
5A 250VAC 5A 30VDC	3A 250VAC/30VDC 5A 250VAC/30VDC	7A 250VAC/28VDC	1A: 5A 250VAC/30VDC 1C: 3A 250VAC/30VDC
(5 to 24)VDC	(3 to 24)VDC	(3 to 24)VDC	(3 to 48)VDC
(0.12 to 0.18)W	0.2W	0.2W	0.2W, 0.45W
1000MΩ	1000MΩ	1000MΩ	1000MΩ
3000VAC	4000VAC	4000VAC	5000VAC
-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
10ms / 5ms	10ms / 10ms	10ms / 10ms	8ms / 4ms
2 x 10 ⁷ OPS	5 x 10 ⁶ OPS	5 x 10 ⁶ OPS	1 x 10 ⁶ OPS
1 x 10 ⁵ OPS (3A 250VAC/30VDC)	1.2 x 10 ⁵ OPS	6 x 10 ⁴ OPS	1 x 10 ⁵ OPS
			
UL/CUL TÜV CQC	UL/CUL VDE CQC	UL/CUL VDE CQC	UL/CUL VDE CQC

Power Relay

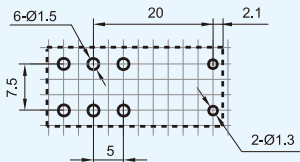
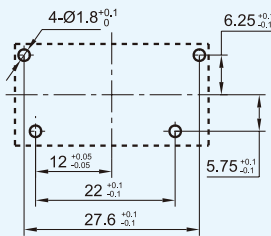
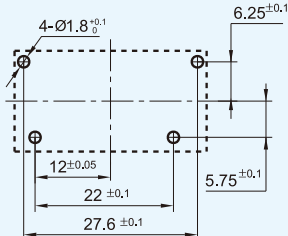
Type	HF32FV NEW	HF32FV-G NEW	HF33F		
					
Dimensions(L x W x H) mm	18.4 x 10.2 x 15.3	18.4 x 10.2x 15.3	20.5 x 10.2 x 15.3		
Contact ratings					
Contact form	1A		1A, 1C		
Contact material	AgNi, AgSnO ₂ , AgCdO		AgSnO ₂ , AgNi, AgCdO		
Max. switched current (res.load)					
Max. switching voltage	277VAC/30VDC		277VAC / 30VDC		
Max. switching power	1250VA/150W	750VA/90W	2500VA/300W	2000VA/240W	1250VA / 150W
Rated resistive load	5A/250VAC 5A/30VDC	3A/250VAC 3A/30VDC	10A/250VAC 10A/30VDC	8A/250VAC 8A/30VDC	NO: 10A 125VAC 5A 250VAC/30VDC NC: 3A 250VAC/30VDC
Coil ratings					
Nominal voltage	(3 to 48)VDC		(3 to 48)VDC	(3 to 48)VDC	
Nominal operating power	0.2W, 0.45W		0.2W, 0.45W	0.2W, 0.45W	
Specifications					
Insulation resistance	1000MΩ(500VDC)		1000MΩ(500VDC)	1000MΩ	
Dielectric strength (Between coil and contacts)	4000VAC		4000VAC	4000VAC	
Ambient temperature	-40℃ to 85℃		-40℃ to 85℃	-40℃ to 70℃	
Operate / release time (max.)	8ms / 5ms		8ms / 5ms	8ms / 5ms	
Mechanical endurance (min. cycles)	1 x 10 ⁷ OPS		1 x 10 ⁷ OPS	1 x 10 ⁷ OPS	
Electrical endurance (min. cycles)	1 x 10 ⁵ OPS		1 x 10 ⁵ OPS	1 x 10 ⁵ OPS	
Layout (bottom view)					
Approved standards	UL/CUL CQC VDE		UL/CUL CQC VDE	UL/CUL VDE CQC	

Note: Specifications for reference only. Contact HongFa for more information. Specifications subject to change without notice.

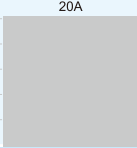
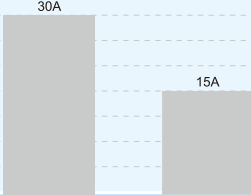
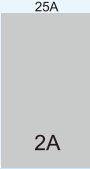
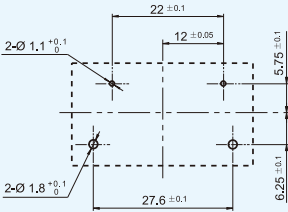
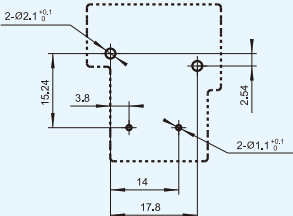
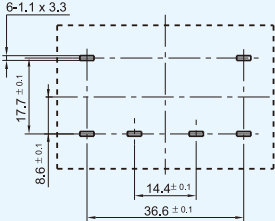


HF3FA	HF152F	HF115F	HF140FF
			
19.0 x 15.2 x 15.5	21.0 x 16.0 x 20.6	29.0 x 12.7 x 15.7	29.0 x 13.0 x 26.3
1A, 1C AgSnO ₂	1A, 1C AgSnO ₂ , AgNi	1A, 1B, 1C 2A, 2B, 2C AgSnO ₂ , AgNi, AgCdO	2A, 2C AgSnO ₂ , AgNi, AgCdO
			
277VAC / 30VDC 2770VA / 300W 1A: 10A 250VAC/28VDC 1C: NO: 10A 250VAC/28VDC NO/NC: 5A/5A 250VAC	1A: 400VAC / 1C: 400VAC(NO) 1A: 4700VA / 1C: 4000VA 1A: 20A 125VAC / 17A 277VAC 7A 400VAC 1C: 16A 250VAC NO: 7A 400VAC	440VAC / 300VDC 3000VA/4000VA 2000VA 16A 250VAC 12A 250VAC 8A 250VAC	250VAC / 30VDC 2500VA / 240W 5A 250VAC 10A 250VAC 8A 30VDC
(3 to 48)VDC	(3 to 48)VDC	(5 to 110)VDC	(3 to 60)VDC
0.36W	0.36W	0.4W	0.53W, 0.8W, 1.4W
100MΩ	100MΩ	1000MΩ	1000MΩ
2500VAC	2500VAC	5000VAC	5000VAC
-40°C to 105°C	-40°C to 105°C (HF152F-T)	-40°C to 85°C	-40°C to 85°C
10ms / 5ms	10ms / 5ms	15ms / 8ms	15ms / 5ms
1 x 10 ⁷ OPS	1 x 10 ⁷ OPS	1 x 10 ⁷ OPS	Standard type: 1 x 10 ⁷ OPS/ W type: 5 x 10 ⁵ OPS
1 x 10 ⁵ OPS(NO, 8A 250VAC)	1A: 1 x 10 ⁵ OPS/ 1C: 5 x 10 ⁴ OPS	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS
			
UL/CUL VDE CQC	UL/CUL VDE CQC	UL/CUL VDE CQC	UL/CUL TÜV CQC

Power Relay

Type	HF14FW	HF102F	HF160F
			
Dimensions(L x W x H) mm	29.0 x 13.0 x 26.5	30.5 x 16.0 x 23.5	30.4 x 15.9 x 25.4
Contact ratings			
Contact form	1A, 1B, 1C	1A	1A
Contact material	AgSnO ₂ , AgCdO	AgSnO ₂ , AgCdO	AgSnO ₂ , AgCdO
Max. switched current (res.load)	30A		
	25A		
	20A	20A	20A
	15A		
	10A		
	5A		
	1A		
Max. switching voltage	277VAC / 30VDC	250VAC	250VAC
Max. switching power	5540VA / 480W	6250VA	6250VA
Rated resistive load	Resistive: 16A 277VAC/24VDC 1HP 240VAC TV-8 125VAC (NO)	20A 250VAC Motor: 2HP 240VAC	20A 250VAC Motor: 2HP 240VAC
Coil ratings			
Nominal voltage	(5 to 60)VDC	(5 to 48)VDC	(5 to 48)VDC
Nominal operating power	0.53W, 0.72W	0.9W	0.9W
Specifications			
Insulation resistance	1000MΩ	1000MΩ	1000MΩ
Dielectric strength (Between coil and contacts)	4000VAC	4500VAC	4500VAC
Ambient temperature	-40°C to 85°C	-25°C to 85°C	-40°C to 85°C
Operate / release time (max.)	15ms / 5ms	20ms / 10ms	20ms / 10ms
Mechanical endurance (min. cycles)	1 x 10 ⁷ OPS	2 x 10 ⁶ OPS	2 x 10 ⁶ OPS
Electrical endurance (min. cycles)	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS
Layout (bottom view)			
Approved standards	UL/CUL VDE CQC	UL/CUL VDE CQC	UL/CUL VDE CQC

Note: Specifications for reference only. Contact HongFa for more information. Specifications subject to change without notice.

HF161F	HF165FD NEW	HF116F-1/-2/-3	
			
30,4 x 15,9 x 23,3	32.2 x 27.5 x 20.4	HF116F-1: 50.5 x 33.5 x 36.0 HF116F-2: 52.5 x 35.5 x 36.0 HF116F-3: 50.5 x 34.5 x 51.0	
1A	1A,1B,1C	1A	2A
AgSnO ₂ , AgCdO	AgSnO ₂	AgSnO ₂ , AgCdO	
			
250VAC	277VAC	277VAC	
6250VA	8310VA	8310VA	6925VA
20A 250VAC Motor : 2HP 250VAC	30A 277VAC	30A 240VAC 30A 277VAC	25A 240VAC 25A 277VAC
(5 to 48)VDC	(5 to 110)VDC	(6 to 220/240)VAC / (3 to 200)VDC	
0.9W	0.9W	2.7VA, 1.9W	
1000MΩ	1000MΩ(500VDC)	1000MΩ	
4500VAC	4000VAC	4000VAC	
-40°C to 85°C	-40°C to 85°C	-55°C to 70°C	
20ms / 10ms	15ms / 10ms	30ms / 30ms	
2 x 10 ⁶ OPS	1 x 10 ⁷ OPS	1 x 10 ⁷ OPS	
1 x 10 ⁵ OPS	1 x 10 ⁵ OPS	1 x 10 ⁵ OPS	
			
UL/CUL VDE CQC	UL/CUL CQC VDE	UL/CUL TÜV CQC	



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