

AC Power Supply ANFC(F) Series



Product Introduction

The ANFC(F) series AC power supply adopts FPGA digital control, instantaneous waveform control and high-frequency pulse width modulation (SPWM) technologies. It has the advantages of fast response speed, high output accuracy, and superior waveform quality; it can withstand 3 times the rated current impact, high capacity and strong load adaptability; adopts modular design concept, small volume and weight, convenient operation and high cost performance. Mainly used in applications such as home appliances, motors and production lines, it is one solution that meets the basic needs of traditional industries and a power supply alternative for equipment upgrades.

Features

- Adopt FPGA digital technology, realize accuracy control and high quality sine wave output;
- Operating in over current shock (up to 3 times of rated current) within 2s, start the impact load of 1/3 capacity of power supply directly;
- Adjustable voltage and frequency during output status;
- Three-phase loading separately, start single phase output by U/V/W fast settings; (Only suitable for three-phase output power supply) ;
- Measurement: voltage, current, frequency, active power;
- Online monitoring: monitor IGBT temperature, transformer temperature, fan speed, input voltage and other parameters during output status;
- Operating data recorders: keep the record of power supply status and alarm code automatically during alarming;
- Voltage range: 1.0-150.0V or 150.1-300.0 V automatic adjustment, or locked at 1.0-300.0V;
- Shortcuts groups, power-off memory, shortcuts key and knobs operation;
- Fan speed will be adjustable automatically with the temperature of power supply to reduce the noise;

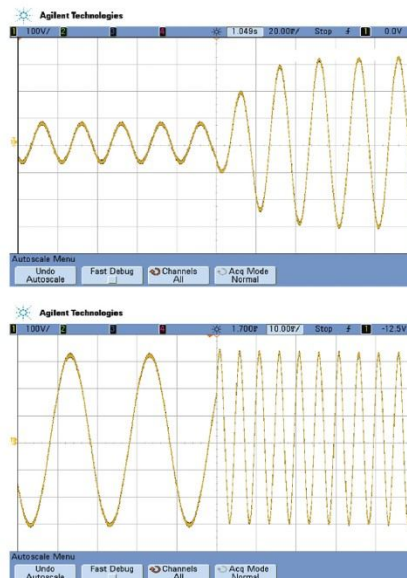
- Lock key, user-friendly design, automatically locking without operation for 5 minutes to prevent from operation mistakes;
- Standard RS232, optional RS485, GPIB, Ethernet, analog control and other remote communication/control.

Applications

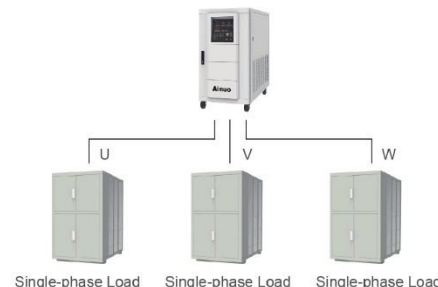
- Over shock capacity:** Can withstand 3 times the rated current shock for 2 seconds, impact load of 1/3 capacity of the power supply directly without soft start (below 1000KVA)



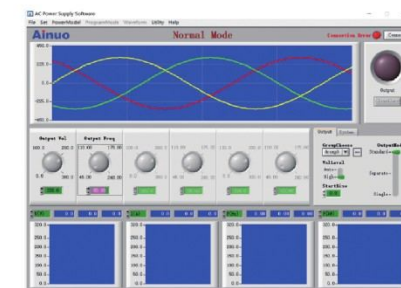
- Adjustable voltage and frequency during output



- Three-phase loading separately (Only suitable for three-phase output power supply)



- PC control software



Specifications

Model	ANFC015S(F)	ANFC020S(F)	ANFC030S(F)	ANFC045S(F)	ANFC060S(F)	ANFC090S(F)	ANFC120S(F)
Capacity	15kVA	20kVA	30kVA	45kVA	60kVA	90kVA	120kVA
Input	Voltage, Frequency: 3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz						
	Voltage: single-phase two-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V; high-grade lock: 1.0 ~ 300.0V						
	Frequency: 40.00 ~ 70.00Hz, 100Hz, 120Hz, 200Hz, 240Hz						
Rated current	110V	136.3A	181.8A	272.7A	409.1A	545.4A	1090.9A
	220V	68.2A	90.9A	136.3A	204.5A	272.7A	545.4A
	Setting	Voltage: Resolution: 0.1V; accuracy: 0.2%×reading value + 0.2%×full scale value					
	accuracy	Frequency: Resolution: 0.1Hz; accuracy: 0.05%					
Testing accuracy	Voltage	Resolution: 0.1V; accuracy: 0.2%×reading value + 0.2%×full scale value					
	Frequency	Resolution: 0.1Hz; accuracy: 0.05%					
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value + 0.3%×full scale value					
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value + 0.45%×full scale value					
Output	Frequency stability	±0.02%					
	Voltage distortion	Linear load: THD < 1%					
	Transient recovery time	20ms					
	Crest factor	1.41±0.1					
	Source voltage effect	±1%					
	Load effect	±1%					
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately;					
Protection mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current						
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status					
	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups					
	Line voltage drop compensation	0.000 ~ 0.500Ω					
Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet, Analog control port						
	Temperature and humidity	0 ~ 40 °C; 20 ~ 90%RH					
	Dimensions (W×H×D mm)	600×1130×1018		700×1330×1218		800×1768×1418	
Weight (Kg)	175	190	250	370	500	560	970

Any changes to the above parameter specifications will not be notified separately.

AC Power Supply ANFC(F) Series



Product Introduction

The ANFC(F) series AC power supply adopts FPGA digital control, instantaneous waveform control and high-frequency pulse width modulation (SPWM) technologies. It has the advantages of fast response speed, high output accuracy, and superior waveform quality; it can withstand 3 times the rated current impact, high capacity and strong load adaptability; adopts modular design concept, small volume and weight, convenient operation and high cost performance. Mainly used in applications such as home appliances, motors and production lines, it is one solution that meets the basic needs of traditional industries and a power supply alternative for equipment upgrades.

Features

- Adopt FPGA digital technology, realize accuracy control and high quality sine wave output;
- Operating in over current shock (up to 3 times of rated current) within 2s, start the impact load of 1/3 capacity of power supply directly;
- Adjustable voltage and frequency during output status;
- Three-phase loading separately, start single phase output by U/V/W fast settings; (Only suitable for three-phase output power supply) ;
- Measurement: voltage, current, frequency, active power;
- Online monitoring: monitor IGBT temperature, transformer temperature, fan speed, input voltage and other parameters during output status;
- Operating data recorders: keep the record of power supply status and alarm code automatically during alarming;
- Voltage range: 1.0-150.0V or 150.1-300.0 V automatic adjustment, or locked at 1.0-300.0V;
- Shortcuts groups, power-off memory, shortcuts key and knobs operation;
- Fan speed will be adjustable automatically with the temperature of power supply to reduce the noise;

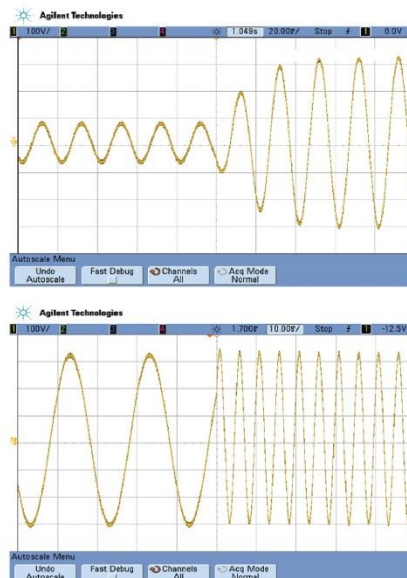
- Lock key, user-friendly design, automatically locking without operation for 5 minutes to prevent from operation mistakes;
- Standard RS232, optional RS485, GPIB, Ethernet, analog control and other remote communication/control.

Applications

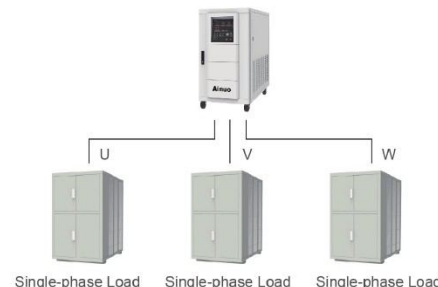
- Over shock capacity:** Can withstand 3 times the rated current shock for 2 seconds, impact load of 1/3 capacity of the power supply directly without soft start (below 1000KVA)



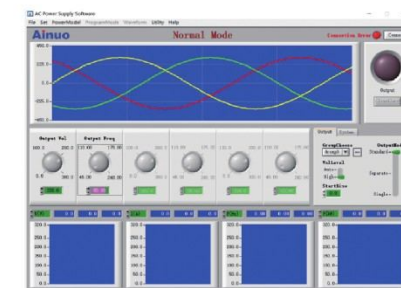
- Adjustable voltage and frequency during output



- Three-phase loading separately (Only suitable for three-phase output power supply)



- PC control software



Specifications

Model	ANFC015S(F)	ANFC020S(F)	ANFC030S(F)	ANFC045S(F)	ANFC060S(F)	ANFC090S(F)	ANFC120S(F)
Capacity	15kVA	20kVA	30kVA	45kVA	60kVA	90kVA	120kVA
Input	Voltage, Frequency: 3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz						
	Voltage: single-phase two-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V; high-grade lock: 1.0 ~ 300.0V						
	Frequency: 40.00 ~ 70.00Hz, 100Hz, 120Hz, 200Hz, 240Hz						
Rated current	110V	136.3A	181.8A	272.7A	409.1A	545.4A	1090.9A
	220V	68.2A	90.9A	136.3A	204.5A	272.7A	545.4A
	Setting	Voltage: Resolution: 0.1V; accuracy: 0.2%×reading value + 0.2%×full scale value					
	accuracy	Frequency: Resolution: 0.1Hz; accuracy: 0.05%					
Testing accuracy	Voltage	Resolution: 0.1V; accuracy: 0.2%×reading value + 0.2%×full scale value					
	Frequency	Resolution: 0.1Hz; accuracy: 0.05%					
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value + 0.3%×full scale value					
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value + 0.45%×full scale value					
Output	Frequency stability	±0.02%					
	Voltage distortion	Linear load: THD < 1%					
	Transient recovery time	20ms					
	Crest factor	1.41±0.1					
	Source voltage effect	≤1%					
	Load effect	≤1%					
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately;					
Protection mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current						
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status					
	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups					
	Line voltage drop compensation	0.000 ~ 0.500Ω					
Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet, Analog control port						
	Temperature and humidity	0 ~ 40 °C; 20 ~ 90%RH					
	Dimensions (W×H×D mm)	600×1130×1018		700×1330×1218		800×1768×1418	
Weight (Kg)	175	190	250	370	500	560	970

Any changes to the above parameter specifications will not be notified separately.

Specifications

Model		ANFC015T(F)	ANFC030T(F)	ANFC045T(F)	ANFC060T(F)	ANFC090T(F)	ANFC120T(F)	ANFC180T(F)	ANFC240T(F)
Capacity		15kVA	30kVA	45kVA	60kVA	90kVA	120kVA	180kVA	240kVA
Input	Voltage, Frequency	3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz							
	Voltage	3-phase 4-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V, high-grade lock: 1.0~300.0V							
	Frequency	40.0 ~ 70.0Hz, 100Hz, 120Hz, 200Hz, 240Hz							
	Rated current	110V 220V	45.4A 22.7A	90.9A 45.4A	136.3A 68.2A	181.8A 90.9A	272.7A 136.3A	545.4A 272.7A	727.2A 363.6A
Setting	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value							
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%							
Testing accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value							
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%							
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value +0.3%×full scale value							
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value +0.45%×full scale value							
Output	Frequency stability	≤0.02%							
	Voltage distortion	Linear load: THD < 1%							
	Transient recovery time	20ms							
	3 phase phase difference	120°±2°							
	Crest factor	1.41±0.1							
	Source voltage effect	≤1%							
	Load effect	≤1%							
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately							
	Protection Mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current							
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status							
Function	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups							
	Line voltage drop compensation	0.000 ~ 0.500Ω							
	Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet, Analog control port							
	Remote control	Analog control port (optional)							
Environment	Temperature and humidity	0 ~ 40℃; 20 ~ 90%RH							
Dimensions (W×H×D mm)		600×1130×1018			700×1330×1218			800×1768×1418	
Weight (Kg)		260	300	430	540	730	970	1240	1390

Any changes to the above parameter specifications will not be notified separately.

Specifications

Model		ANFC350T(F)	ANFC450T(F)	ANFC550T(F)	ANFC650T(F)	ANFC1000T(F)	ANFC1500T(F)	ANFC2000T(F)
Capacity		350kVA	450kVA	550kVA	650kVA	1000kVA	1500kVA	2000kVA
Input	Voltage, Frequency	3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz						
	Voltage	3-phase 4-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V; high-grade lock: 1.0 ~ 300.0V						
	Frequency	40.0 ~ 70.0Hz, 100Hz, 120Hz, 200Hz, 240Hz				40.0 ~ 70.0Hz		
	Rated current	110V 220V	1060A 530.3A	1363A 681.8A	1666A 833.3A	1970A 984.8A	3030A 1515A	--- 2272A 3030A
Setting accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value						
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%						
Testing accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value						
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%						
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value +0.3%×full scale value						
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value +0.45%×full scale value						
Output	Frequency stability	≤0.02%						
	Voltage distortion	Linear load: THD < 1%						
	Transient recovery time	20ms						
	3 phase phase difference	120°±2°						
	Crest factor	1.41±0.1						
	Source voltage effect	≤1%						
	Load effect	≤1%						
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately						105% < Output ≤ 110% the output will be stopped within 15s; 110% < Output ≤ 150% the output will be stopped within 5s; 150% < Output ≤ 200% the output will be stopped within 2s; 200% < Output the output will be stopped immediately;
	Protection mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current						
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status						
Function	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups						
	Line voltage drop compensation	0.000 ~ 0.500Ω						
	Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet						
	Remote control	Analog control port (optional)						
Environment	Temperature and humidity	0 ~ 40℃; 20 ~ 90%RH						
Dimensions (W×H×D mm)		1800×2000 ×1400	2400×2000 ×1400	3000 (1400×1600) ×1900×1400		4200×2100 ×1400	-	-
Weight (Kg)		2730	3150	4270	4660	8000	-	-

Any changes to the above parameter specifications will not be notified separately.

Specifications

Model		ANFC015T(F)	ANFC030T(F)	ANFC045T(F)	ANFC060T(F)	ANFC090T(F)	ANFC120T(F)	ANFC180T(F)	ANFC240T(F)
Capacity		15kVA	30kVA	45kVA	60kVA	90kVA	120kVA	180kVA	240kVA
Input	Voltage, Frequency	3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz							
	Voltage	3-phase 4-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V, high-grade lock: 1.0~300.0V							
	Frequency	40.0 ~ 70.0Hz, 100Hz, 120Hz, 200Hz, 240Hz							
	Rated current	110V 220V	45.4A 22.7A	90.9A 45.4A	136.3A 68.2A	181.8A 90.9A	272.7A 136.3A	545.4A 272.7A	727.2A 363.6A
Setting	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value							
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%							
Testing accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value							
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%							
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value +0.3%×full scale value							
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value +0.45%×full scale value							
Output	Frequency stability	≤0.02%							
	Voltage distortion	Linear load: THD < 1%							
	Transient recovery time	20ms							
	3 phase phase difference	120°±2°							
	Crest factor	1.41±0.1							
	Source voltage effect	≤1%							
	Load effect	≤1%							
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately							
	Protection Mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current							
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status							
Function	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups							
	Line voltage drop compensation	0.000 ~ 0.500Ω							
	Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet, Analog control port							
	Remote control	Analog control port (optional)							
Environment	Temperature and humidity	0 ~ 40℃; 20 ~ 90%RH							
Dimensions (W×H×D mm)		600×1130×1018			700×1330×1218			800×1768×1418	
Weight (Kg)		260	300	430	540	730	970	1240	1390

Any changes to the above parameter specifications will not be notified separately.

Specifications

Model		ANFC350T(F)	ANFC450T(F)	ANFC550T(F)	ANFC650T(F)	ANFC1000T(F)	ANFC1500T(F)	ANFC2000T(F)
Capacity		350kVA	450kVA	550kVA	650kVA	1000kVA	1500kVA	2000kVA
Input	Voltage, Frequency	3-phase 4-wire + PE, Phase voltage: 220V±33V, line voltage: 380V±57V, 50/60Hz±3Hz						
	Voltage	3-phase 4-wire, Automatic state: (low-grade) 1.0 ~ 150.0V, (high-grade) 150.1~300V; high-grade lock: 1.0 ~ 300.0V						
	Frequency	40.0 ~ 70.0Hz, 100Hz, 120Hz, 200Hz, 240Hz				40.0 ~ 70.0Hz		
	Rated current	110V 220V	1060A 530.3A	1363A 681.8A	1666A 833.3A	1970A 984.8A	3030A 1515A	--- 2272A 3030A
Setting accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value						
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%						
Testing accuracy	Voltage	Resolution: 0.1V, accuracy: 0.2%×reading value +0.2%×full scale value						
	Frequency	Resolution: 0.1Hz, accuracy: 0.05%						
	Current	Resolution: 0.1A/1A, accuracy: 0.3%×reading value +0.3%×full scale value						
	Power	Resolution: 0.1kW/0.01kW/0.001kW, accuracy: 0.45%×reading value +0.45%×full scale value						
	Frequency stability	≤0.02%						
Output	Voltage distortion	Linear load: THD < 1%						
	Transient recovery time	20ms						
	3 phase phase difference	120°±2°						
	Crest factor	1.41±0.1						
	Source voltage effect	≤1%						
	Load effect	≤1%						
	Overload capacity	105% < outputs ≤ 110% the output will be stopped within 15s; 110% < outputs ≤ 200% the output will be stopped within 5s; 200% < outputs ≤ 300% the output will be stopped within 2s; 300% < output the output will be stopped immediately						
	Protection mode	IGBT overheat, IGBT over current, Transformer overheat, Input under voltage, Input over voltage, Output under voltage, Output over voltage, Output over load, Output short circuit, output over current						
	Online adjustment function	The output voltage and frequency (45~65Hz) can be adjusted online under status						
	Memory function	Power down memory function, memory last output mode and parameters; Shortcut group 7 groups						
Function	Line voltage drop compensation	0.000 ~ 0.500Ω						
	Communication control interface	Standard: RS232; Optional: RS485, GPIB, Ethernet						
	Remote control	Analog control port (optional)						
	Temperature and humidity	0 ~ 40℃; 20 ~ 90%RH						
Dimensions (W×H×D mm)		1800×2000 ×1400	2400×2000 ×1400	3000 (1400×1600) ×1900×1400	4200×2100 ×1400	-	-	-
Weight (Kg)		2730	3150	4270	4660	8000	-	-

Any changes to the above parameter specifications will not be notified separately.