



Shanghai Wenlida Technology Co. Ltd.

Add: NO.2439 Gaoshi road, Jiading District, Shanghai, China



变频电源

NO.	TECHNICAL REQUIREMENTS		TECHNICAL SPECIFICATION	
1	PRODUCT NAME		Variable Frequency Power Supply	
2	PHASE NUMBER		Input: Single-phase / Three-phase	Output: Single-phase / Three-phase
3			Note: We can produce and manufacture corresponding input and output phases according to customer requirements.	
4	RATED CAPACITY		3kVA ~ 1000kVA	
5	MODEL		VFP-#####KVA	
6	EFFICIENCY		≥85%	
7	INPUT	VOLTAGE (V)	Single-phase: 220V±20%	Three-phase: 380V±20%
8			Notes: 1. Other specified voltages can be designed and produced according to customer requirements. 2. Other voltage ranges can be designed and produced according to customer requirements.	
9			FREQUENCY (Hz)	47 ~ 63Hz Note: Other frequency ranges can be designed and produced according to customer requirements.
10	OUTPUT	MODULATION SCHEME	IGBT/SPWM sine wave pulse width modulation method	
11		VOLTAGE (V)	Single-phase: 0~300V, adjustable	Three-phase: 0~520V, adjustable
12			Note: Customized higher voltage ranges are available upon customer request.	
13		VOLTAGE STABILITY (AVERAGE)	±1%	
14			Note: Customization to higher accuracy is available upon customer's request.	
15	FREQUENCY STABILITY	<0.1%		



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16		FREQUENCY (Hz)	Options are available according to customer requirements: 1. Adjustable mode: 41~73Hz; 2. Customize the adjustable mode range according to customer requirements: 5~1000Hz; 3. Fixed mode: 50/60/400Hz; 4. Optional fixed mode according to customer requirements: 100/200Hz
18		REACTION TIME	For input voltage variations, within 2ms.
19		VOLTAGE WAVEFORM DISTORTION (THD)	For linear loads, it is less than 2%.
20		PHASE SHIFT	1. When the load is three-phase balanced, it is $\leq \pm 1^\circ$;
21			2. When the load is unloaded, $\leq \pm 1^\circ$
22			3. When there is 100% three-phase imbalance, it is $\leq \pm 4^\circ$
23		THREE-PHASE UNBALANCE	Automatic balance of three-phase voltage
24	OTHER PARAMETERS	OVERLOAD	120%/1 hour; 150%/1 minute; 200%/20 seconds
25		INSULATION RESISTANCE	DC 500V, above 20M Ω .
26		VOLTAGE RATING	1500Vac / 10mA, no leakage.
27		NOISE	≤ 60 dB, at a distance of 1m from the equipment.
28		COOLING METHOD	Customers can choose according to their requirements: 1. Natural air cooling 2. Forced air cooling
29		ENCLOSURE LEVEL	IP 20 (regular) Note: Higher enclosure ratings can be customized according to customer requirements.
30		COMMUNICATION PROTOCOL	Based on customer requirements, options include: 1. RS485 2. MODBUS-RTU
31	CONTROL SYSTEM	MAIN CONTROL COMPONENTS	Main measurement control chip: ARM 32-bit processor;
			Main inverter component: IGBT
32		CARRIER FREQUENCY	4K; 8K; 12K; 16K
33		CONTROL VOLTAGE & CURRENT ACQUISITION METHOD	valid value
34	CONTROL METHOD	Customers can choose from the following options according to their requirements: 1. Voltage closed-loop control 2. Current closed-loop control 3. VF curve control	



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35	DISPLAY SYSTEM	DISPLAY PANEL	touch screen
36		DISPLAY PARAMETERS	Line voltage (L-L), three-phase voltage (L-N), three-phase current, frequency, power
37		FAULT DIAGNOSIS AND DISPLAY	Overload and short circuit fault, IGBT module fault, fuse fault, over-temperature fault
38		ELECTRICAL PARAMETER DISPLAY RESOLUTION	Rated parameter display accuracy: Level 1.0 (voltage=0.1V, current=0.1A, power=0.1kW)
39	PROTECTION SYSTEM	PROTECTION FUNCTION	1. Input fuseless switch
40			2. Output fuseless switch
41			3. Electronic circuit quickly detects over-current
42			4. Over-voltage
43			5. Overload
44			6. Excessive temperature
45			7. Short circuit and automatic tripping protection and alarm
46		PROTECTION METHOD	Cut off output
47	WORKING ENVIRONMENT	AMBIENT TEMPERATURE	-10~+45°C
48		RELATIVE HUMIDITY	0~90%
49		ALTITUDE	≤2000m
50			Note: If the altitude exceeds the rated altitude, the device should be used with corresponding derating.
51	PACKAGING		Plywood wooden box packaging