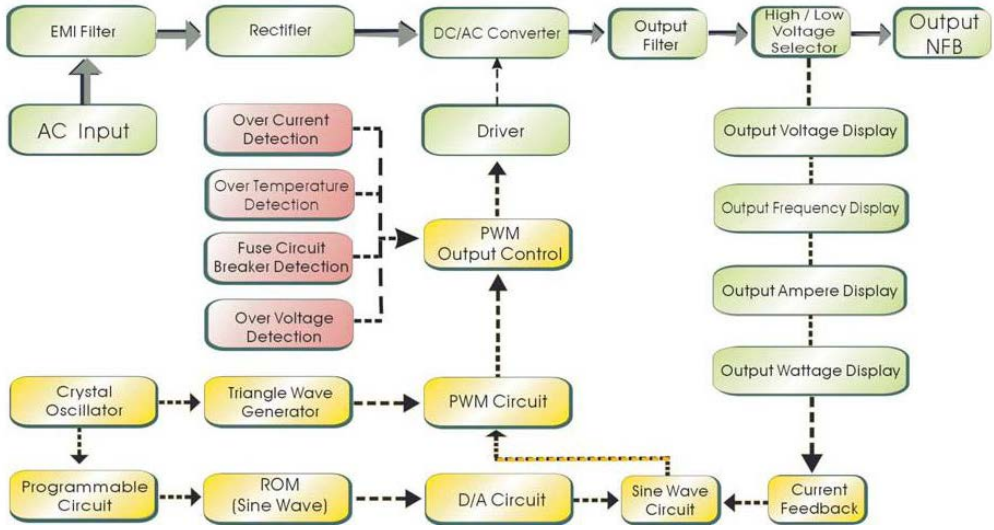
IGBT/PWM Principle

It is a machine that takes electrical input power at one frequency and voltage and provides variable output voltage and frequency for testing loads over their full voltage and frequency. Solid state units convert in-coming AC power into DC power, and then convert the DC into the required output power. Its design is based on advanced DSP and high frequency PWM(pulse width modulation) technology. By employing the IGBT module to reduce circuit complexity, and crystal oscillation to enhance frequency stability. Full galvanically isolated provides pure sine wave output and no harmonic distortion. Totally makes the unit with accurate regulations and no minimum distortion which are very suitable to be a standard AC power source for EMI/EMC/life and safety test.



General Product Features

- This unit is suitable for use with resistive, capacitive, inductive and non-linear loads.
- 50Hz, 60Hz or 400Hz input frequency.
- 0 to 300VAC output voltage selector.
- Programmable output frequency.
- Precise 4 digital display output frequency, voltage, ampere & wattage.

Applications

- Standard power source for EMI/EMC/Safety testing.
- QA/QC/Life & safety testing.
- Electric machinery product testing.
- Excellent AC power source for R&D or lab.
- Switching power supply testing.
- AC Fan testing.

JUNXY ENERGY

Ideas For Your Power Systems !

JUNXY Series AC Power Source www.junxypowersolutions.com

- Full galvanically isolated, no harmonic distortion(EMI, EMC).
- Pure and stable sinewave output.
- Fast response time.
- Sustained 300% overload capability.
- IGBT/PWM technology enhances compact size, lower noise, high reliability.
- Capable to simulate global voltage, frequency for export electrical products test.
- Units are equipped with electronic circuit/instant trip breaker/buzzer alarm for over voltage, over current, over temperature, output short circuit protection.
- Compressor testing.
- Motor testing.
- Air conditioner testing.
- Copier/OA equipment.
- Computer/monitor/scanner.
- Transformer/triac/SCR testing.
- Electronic ballast testing.
- 400Hz Power System

Technical Specifications			
Phase		Single Phase	Three Phase
Capacity		500VA—45KVA	3KVA—150KVA
Working		IGBT/pulse width modulation(PWM)	
Input	Voltage (**Select one**)	1φ2W+G: 220V/230V/240±10%	
		3φ4W+G, Y connection: 190/110,200/115,208/120,220/128,230/132,240/139V±10%	
		3φ4W+G, Y connection: 380/220, 400/230, 415/240, 440/254, 460/265, 480/277V±10%	
		3φ3W+G; Delta connection: 220, 230, 240, 380, 400, 415, 440V±10%	
	Frequency (**select one**)	47Hz--63Hz or 400Hz ±5%	
Output	Voltage(1φ)	110V system: 0-150V(Low Range)	
		220V system: 0-300V(High Range)	
	Voltage(3φ)	110V system: 0-260V(Low Range)	
		220V system: 0-520V(High Range)	
	Load Regulation	≤±1%	
	Frequency	40.0Hz-499.9Hz(Programmable)	
	Frequency Resolution	≤±0.01%	
	Distortion(THD)	Pure Sine Wave, ±2%	
	Frequency Meter	4 LED digital display. Res 0.1Hz/step	
	Voltmeter	4 LED digital display. Res 0.1V	
	Ammeter	4 LED digital display. Res 0.1A	
	Wattmeter	4 LED digital display. Res 0.1W	
Protections		over load, over temperature, instant cut off, short circuit & warning setting	
Working Environment	Amb. Temp.	0-40℃	
	Humidity	0-90%(non-condensing)	
Input: 1φ2W, Output: 1φ2W			

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Capacity		500VA	1KVA	2KVA	3KVA	5KVA	10KVA	15KVA	20KVA	30KVA
Maximum Current	L=110V	4.2A	8.4A	16.8A	25.2A	42A	84A	125A	166.4A	252A
	H=220V	2.1A	4.2A	8.4A	12.6A	21A	42A	63A	83.2A	126A
Weight	(Kgs)	17	21	40	50	60	90	110	140	180
Dimension	(mm)	365*570*138		535*350*700			640*420*920			770*550*1110

Input: 3φ4W, Output: 1φ2W

Capacity		45KVA	50KVA	60KVA	75KVA	90KVA	100KVA	120 KVA	150 KVA
Maximum Current	L=110V	378A	420A	504A	630A	750.0A	420A	1008A	1260A
	H=220V	189A	210A	252A	315A	375.0A	840A	504A	630A
Weight	(Kgs)	250	270	300	350	430	450	550	700
Dimension	(mm)	850*750*1200			1050*860*1300			1500*860*1435	

Input: 3φ4W, Output: 3φ4W

Capacity		3KVA	6KVA	10KVA	15KVA	20KVA	30KVA	45KVA	60KVA	75KVA	100KVA
Maximum Current	L=110V	8.4A	16.8A	28A	42A	56A	84A	125A	168A	210A	277.6A
	H=220V	4.2A	8.4A	14A	21A	28A	42A	62.5A	84A	105A	138.8A
Weight	(Kgs)	100	130	170	220	270	320	380	450	470	530
Dimension	(mm)	640*460*920			770*500*1100		850*750*1200			1050*860*1300	

Capacity		120KV	150KVA	200KVA
Maximum Current	L=110V	336A	420A	560A
	H=220V	168A	210A	280A
Weight	(Kgs)	600	680	750
Dimension	(mm)	1500*860*1435		