

VPC series

Clean AC Power Source / Frequency Converter
0.5~2000kVA



Your Power House
VP ELECTRONIQUE



CE RoHS
Compliant

▼ Single Phase Output
0.5 ~ 120kVA

▼ Three Phase Output
5 ~ 2000kVA

▼ Adjustable Output Voltage and Frequency

▼ Galvanic isolation input to output

▼ Option for Custom Voltage Output Range

▼ Double Conversion Pure Sinewave Output

▼ Quiet and Clean Power Source

▼ Option for Output EMI filter

AC Power Source and Frequency Converter

VPC Series is an adjustable AC power source, provides double power conversion from a variety of inputs to pure clean sinusoidal output, isolate the harmonics from the grid system, fully adjustable across the output voltage and frequency ranges. O engineers have designed power products for over 35 years, the reliability and endurance of the VPC series products make the ideal solution for production, burn-in testing, chamber power, or laboratory stationary power source.

VPC series is designed with IGBT technology, consists of single phase output models from 0.5kVA to 120kVA and three phase output models from 5kVA to 2000kVA. The adjustable voltage output range of 5~300VL-N (8~520VL-L for three phase output system). VPC series also provides custom voltage range option that can simulate higher voltage range utility (ex: 600VL-L system) or lower voltage range with higher current test units. VPC series provides different output frequency band with different price range. Users can choose the frequency band according to their requirements and save the cost for their specific purpose. VPC series is a simple, clean, and cost effective solution for all of your AC power conversion needs!

Type	Output Frequency Range	Applications
A (Standard)	47~63Hz Adjustable, 50/60Hz Selectable	Industrial Product Testing, Production Line Power, Chamber Power, Burn-in Testing
B	45~500Hz Adjustable	Laboratory Testing, Electrical Safety Test
C	350~450Hz Adjustable, 400Hz	Military Stationary Power, Product Testing
D	47~63Hz Adjustable, 50/60/2F/4F/400Hz selectable	Transformer Testing
E	50/60Hz Selectable	Clean Power Source, Harmonics Isolation Variable Voltage Power, Frequency Conversion

Clean Adjustable Power Source

Applications :



Burn-In, Aging Test



Quality Assurance Test



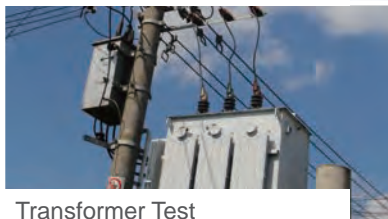
Clean Power, Chamber Power



Military Maintenance Power



Product Test and Verification



Transformer Test



- Output Power: Single Phase Output (0.5kVA to 120kVA), Three Phase Output (5kVA to 2000kVA)
- Output Frequency: Type A to Type E frequency range according to the application
- Output Voltage: 5~150V/10~300VL-N (520VL-L), Optional for custom output voltage range available
- Double conversion, Galvanic isolation input to input, Clean Output, THD: < 2% (Optional for <1%)
- Analog knob for adjusting V and Hz, LED display for showing output V, A, kW, Hz
- One single stand alone unit up to 2000kVA (not parallel connected multiple units) with high MTBF
- All models equipped with input breaker and output magnetic switch with safety protection
- Optional output EMI filter for EMC chamber power applications
- Optional overload capacity for motor or inductive type load
- Optional for environmental proof or outdoor applications
- Optional RS232 or RS485 remote controlling the output V and Hz (no monitoring available)

Comparison with Motor Generator Set and Motor Driven Variable Transformer

	VPC Series	Motor Generator Set	Motor Driven Variable Transformer
Adjust Output Voltage	✓		✓
Select Output Frequency	✓	✓	
Adjust Wide Frequency Range	✓		
Static Type Without Moving Part	✓		
Low Noise suitable for indoor lab	✓		
Response Time for setting new V or Hz	Fast	-	Slow
Isolate Harmonics From Grid System	✓		
Regulate Output V or Hz when Load Change	✓		
Regulate Output V or Hz when Grid Change	✓		
Output Harmonic Distortion	<1 to 2%	<4 to 5%	Same as Input Grid
Full Load Efficiency	85~90%	70~80%	
Suitable for Outdoor or Sever Applications		✓	
Overload Capability	Option	✓	✓
Maintenance	Little or no preventive maintenance other than cleaning fans, exhausts	Preventive maintenance is required, e.g., bearing maintenance, belt replacement	Preventive maintenance is required, e.g., bearing maintenance, belt replacement

VPC Series Case Dimension Overview



Single-phase output models																						
Model	Output										Input			Dimensions (WxDxH) mm / inch	Chassis No.	Weight KG / lbs						
	Power	Phase	Voltage (Vrms)	Frequency	Current / Phase (Amps)		THD	Regulation	Frequency Accuracy	Efficiency	Voltage	Frequency	Power factor									
VPC-500W	500W	1Ø2W +G	Low(V): 0-150VAC High(V): 0-300VAC Low(V): 5-150 VAC High(V): 10-300VAC (L-N)	A (Standard) 47~63Hz, 50/60Hz B 45~500Hz C 350~450Hz, 400Hz D 47~63Hz, 50/60/2F/4F/400Hz E 50/60Hz	4.2	2.1	0.50%	≤0.5%	≤0.01%	≥90%	110/ 220 V ± 15% (1Ø2W +G)	50 or 60 ±3 Hz	≥0.8	430x520x200/ 17x20.5x7.9	①	44/97						
VPC-11003	3 KVA				25	12.5	41.7	20.8			≤2% * (opt. ≤1%)			± 1% *	≤0.01%	≥90%	120V or 220 V ± 15% (1Ø2W +G)	50 or 60 ±3 Hz	≥0.8	430x520x720 / 17x20.5x28.4	②	73/161
VPC-11005	5KVA				41.7	20.8														600x850x945/ 23.7x33.5x37.3	③	210/461
VPC-11010	10KVA				83.3	41.7	600x850x1340 / 23.7x33.5x52.8	④												280/617		
VPC-11015	15KVA				125.0	62.5	600x850x1340 / 23.7x33.5x52.8	④												330/727.6		
VPC-11030	30KVA				250.0	125.0	600x850x945/ 23.7x33.5x37.3	③												240/529		
VPC-31010	10KVA				83.3	41.7	600x850x1340 / 23.7x33.5x52.8	④												290/639		
VPC-31015	15KVA				125.0	62.5	600x850x1340 / 23.7x33.5x52.8	④												360/793		
VPC-31030	30KVA				250.0	125.0	800x860x1545/ 31.5x33.9x60.9	⑤												580/1278		
VPC-31045	45KVA				375.0	187.5	800x860x1545/ 31.5x33.9x60.9	⑤												670/1477		
VPC-31060	60KVA				500.0	250.0	1050x970x1800/ 41.4x38.2x70.9	⑥												830/1829		
VPC-31080	80KVA				666.7	333.4	1050x970x1800/ 41.4x38.2x70.9	⑥												830/1829		
VPC-31100	100 KVA				833.3	416.7	1150x1240x1900 / 45.3x48.9x74.9	⑦												935/2061		
VPC-31120	120 KVA				1000.0	500.0	1150x1240x1900 / 45.3x48.9x74.9	⑦												1092/2407		

1. VPC series have input overvoltage, undervoltage, overcurrent, over power, output overvoltage, undervoltage, reverse current, over temperature and short circuit protection

* The test situation is under resistive load. ** All specifications are subject to change without notice.

***All dimensions and weights are for input voltage 220/380V. Please contact us for dimensions for other input voltage.

VPC Series-Three Phase Unit

Three-phase output models																
Model	Output										Input			Dimensions (WxDxH) mm / inch	Chassis No.	Weight KG / lbs
	Power	Phase	Voltage (Vrms)	Frequency	Current / Phase (Amps)		THD	Regulation	Frequency Accuracy	Efficiency	Voltage	Frequency	Power Factor			
VPC-33005	5KVA	3Ø4W +G	Low(V): 5-150 VAC High(V): 10-300VAC (L-N)	A (Standard) 47~63Hz, 50/60Hz B 45~500Hz C 350~450Hz, 400Hz D 47~63Hz, 50/60/2F/4F/400Hz E 50/60Hz	13.9	6.9	≤2% * (opt. ≤1%, up to 200kVA)	± 1% *	≤0.01%	≥90%	120/208V or 277/480V or 220/380V ± 15% (3Ø4W +G)	50 or 60 ±3 Hz	≥0.8	600x850x945 / 23.7x33.5x37.3	③	200/441
VPC-33010	10KVA				27.8	13.9								600x850x1340 / 23.7x33.5x52.8	④	310/661
VPC-33015	15KVA				41.7	20.8								600x850x1340 / 23.7x33.5x52.8	④	310/683
VPC-33030	30KVA				83.3	41.7								800x860x1545 / 31.5x33.9x60.9	⑤	580/1278
VPC-33045	45KVA				125.0	62.5								800x860x1545 / 31.5x33.9x60.9	⑤	670/1477
VPC-33060	60KVA				166.7	83.3								1050x970x1800 / 41.4x38.2x70.9	⑥	890/1962
VPC-33080	80KVA				222.2	111.1								1050x970x1800 / 41.4x38.2x70.9	⑥	960/2116
VPC-33100	100KVA				277.8	138.9								1150x1240x1900 / 45.3x48.9x74.9	⑦	1400/3086
VPC-33120	120KVA				333.3	166.7								1150x1240x1900 / 45.3x48.9x74.9	⑦	1840/4056
VPC-33160	160KVA				444.4	222.2								2240x1240x2000 / 88.2x48.9x78.8	⑧	2465/5434
VPC-33200	200KVA				555.6	277.8								2240x1240x2000 / 88.2x48.9x78.8	⑧	3335/7352
VPC-33240	240KVA				666.7	333.3								3450x1240x2000 / 135.8x48.9x78.8	⑨	3600/7936
VPC-33300	300KVA				833.3	416.7								3450x1240x2000 / 135.8x48.9x78.8	⑨	3960/8730
VPC-33400	400KVA				1111.1	555.6										
VPC-33500	500KVA	1388.9	694.4													
VPC-33640	640KVA	1777.8	888.9													

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