VP ELECTRONIQUE

The Best Choice for Grid Abnormal Simulation

Providing clean sine wave AC power, the VPC series allows users to simulate all sorts of utility grid voltage and frequency. The new VPC series features upgraded appearance design and user interface for a more intuitive control. It provides measurements of voltage, current, frequency and power factor. Moreover, the built-in hot key function allows quick memory recall and easy voltage and frequency setting.

Easy-to-use
Intuitive and User-friendly Operation

6 Output Hot Key
Easy Set up and Recall

200% Overload Capability
Easy to Activate Products that Require High Activation Current

- **10" Intuitive Touch Screen Control**
  Users can easily read or set test parameters.
- **Applicable to 100% Unbalanced Load**
  Capable of delivering power to either three separate single-phase devices like EV Charger or one single three-phase device.
- **RS-232 & RS-485 Remote Interfaces**
  Users can set test parameters for single or multiple VPC series remotely.

IS-0017

VPC series

RoHS Compliant CE

Output Power

10kVA~2000kVA

Interfaces

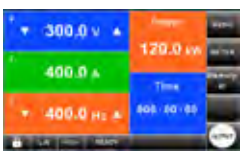
Standard **RS-232** **RS-485**

AC Power Source/ Frequency Converter

Providing clean sine wave AC power, the VPC series allows users to simulate all sorts of utility grid voltage and frequency for export product testing or operation of imported equipment. With a brand new appearance design, the new VPC series has not only improved electronic performance but also upgraded its user interface with 7'' or 10" touch screen as well as RS-232 and RS-485 for more intuitive control. The VPC series now provides measurements of voltage, current, frequency and power factor. The built-in hot key function allows quick memory recall and easy voltage and frequency setting.

VPC series can simulate standard or abnormal voltage and frequency status. The maximum output power is up to 2000kVA in one unit instead of parallel. The output voltage range is 0-310V, and the output frequency is adjustable between optional 45-65Hz continuously , and optional 45-65Hz, 100Hz / 120Hz / 200Hz / 240Hz / 400Hz. With PWM high-frequency switching technology, VPC series provides pure sine wave output, with single-phase and three-phase output models. Unlike other power supplies in the market, VPC series is suitable for the Certified Bureau, the production and R&D of various industries including home appliances, electrical electronics, medical equipment and lighting.

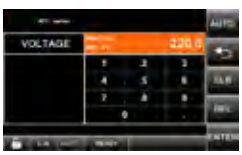
Friendly UI and Hot Key Group



Main page

6 hot key group

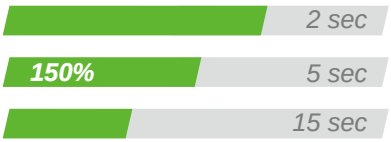

Meter page



Voltage setting page

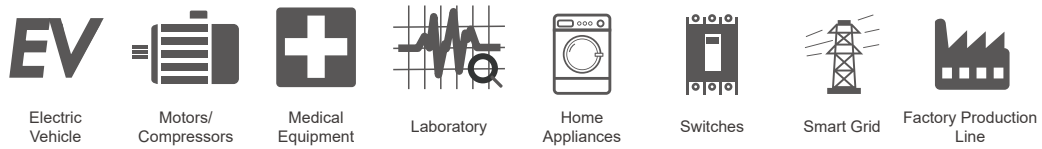
The new VPC series has updated with an enlarged touch screen that can make fine tune adjustment for parameters and changing values. With RS-232,RS-485 interface, VPC is able to be controlled remotely. The colorful display allows user to quickly recognize all the parameters including voltage, current and PF with 6 groups of hot key that can promptly switching at a glance.

Overload Capability (Opt.)



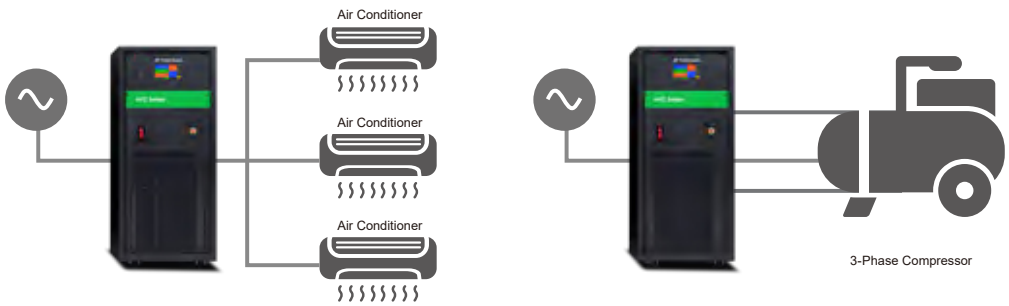
An electric-motor-type UUT (Unit under Test), such as motor, compressor or water pump, generates great activation current when activating. As a result, users need to purchase a power supply with much higher capacity than the UUT itself. VPC series has an optional overload capability that can endure/achieve 200% overload capability, easy to activate products of electric motor type that require high activation current.

Ideal Power Source for Various Industries



The VPC series AC power source is highly reliable and easy to operate, and it has been widely applied in production line, quality assurance and design verification. The multiple levels of frequency and wide range of output voltage is ideal for applications requiring voltage and frequency coversion. The unit can also be applied as isolation between DUT and the grid to reduce the interference from each side. These features make the VPC series ideal for home appliance, EMC chamber, motor and electronic industries.

Applicable to 100% Unbalanced Load



The VPC series is reliable for testing home appliances, motors, and compressors in production lines or laboratories. It can simulate different voltages and frequencies found in various countries to confirm the DUT's reliability. AFC series can handle unbalanced three-phase loads and connect to single-phase or three-phase loads simultaneously.

Patent Module Design & CE Certified

The VPC series uses AC Power patent power module to greatly enhance its reliability and performance for high power model. It is CE certified and fulfill EMC and LVD requirements to ensure low interference to the DUT and the environment.

VPC Series Single-Phase Output (5kVA-30kVA)

Model		VPC-11005-E	VPC-11010	VPC-11015	VPC-11030
INPUT					
Phase		1Ø / 2 Wire + G			
Voltage[*1]		220V±15%			
Frequency		47- 63Hz			
Max. Current[*2]		41.8A	74A	111A	222A
Power Factor		≥ 0.8 (Max. Power)	≥ 0.85 (Max. Power)		
Power (VA)		5kVA	10kVA	15kVA	30kVA
Phase		1Ø / 2 Wire + G			
Voltage Ranges	Low(V)	5V-155.0V (L-N)	0V-155.0V (L-N)		
	High(V)	10V-300.0V(L-N)	0V-310.0V(L-N)		
Voltage Resolution		0.1V			
Voltage Accuracy		0.2% F.S.+4 counts	0.5% F.S.+4 counts		
Frequency Range[*3]		Standard:47Hz - 63Hz;50Hz;60Hz Option: 2&4 times frequency;400Hz	Standard : 45-65Hz Option : 45-65Hz,100Hz/120Hz/200Hz/240Hz/400Hz		
Frequency Resolution		0.1Hz			
Frequency Accuracy		±0.1% F.S.	±0.02% F.S.		
Max. Current	Low(A)	41.7A	83.3A	125A	250A
	High(A)	20.8A	41.7A	62.5A	125A
Line Regulation		< 1%			
Load Regulation		< 1% (Resistive Load)			
Total Harmonic Distortion		≤ 2% (Resistive Load)			
Response Time		≤ 2ms			
Voltage Range					
Voltage Resolution		0.1V			
Voltage Accuracy		0.2% F.S.+4counts	0.5% F.S.+4counts		
Frequency Range					
Frequency Resolution		0.1Hz	0.01Hz		
Frequency Accuracy		±0.1% F.S.	±0.02% F.S.		
Current Range(RMS)		0-250A			
Current Resolution(RMS)					
Current Accuracy(RMS)					
Power Range		0 - 5kW	0 - 10kW	0 - 15kW	0 - 30kW
Power Resolution					
Power Accuracy		0.3% F.S.+4counts	1% F.S.+6counts		
Efficiency		≥ 80% at Max. Power	≥ 85% at Max. Power		
HMI		Digital LED Display	7" Touch Screen		
Memories		-	6 sets (M1/M2/M3/M4/M5/M6)		
Protection		Input : N.F.B, Over Voltage, Under Voltage, Output : Over Voltage, Over Current, Over Temperature	Input : N.F.B, Over Voltage, Under Voltage, Output : Over Voltage, Over Current, Over Temperature		
Remote Interface		-	Standard : RS-232 &RS-485		
Operating Temperature		0℃ ~ 45℃			
Humidity		0-90% (Non condensing)			
Altitude		< 1,500m			
Dimensions (H x W x D)[*4]		720 x 430 x 520 mm (including wheels)	1045 x 600 x 800 mm (including wheels)		1440 x 600 x 800 mm (including wheels)
		28.3x 16.9 x 20.4 inch (including wheels)	41.1x 23.6 x 31.5 inch (including wheels)		56.7x 23.7 x 31.5 inch (including wheels)
Weight[*4]		89 kg	210 kg	240 kg	330 kg
		2.2 lbs	462.9 lbs	529.1 lbs	727.5 lbs

*1 Please contact us for other input voltage specifications. *2 The max. current is based on rated input voltage of 220V.
*3 For frequency option, please contact us for output power characteristic curve.
*4 Dimensions and weight are for input voltage 220V. Please contact us for dimensions and weight for other input voltage.
* All specifications are subject to change without notice. The specifications are tested at ambient temperature of 25℃ ± 5℃ .

VPC Series Single-Phase Output (10kVA-120kVA)

Model		VPC-31010	VPC-31015	VPC-31030	VPC-31045	VPC-31060	VPC-31080	VPC-31100	VPC-31120
INPUT									
Phase		3Ø / 3 Wire + G							
Voltage		380VAC ±15% (option: 220V / 208VAC)		380VAC ±15% (option: 480VAC)					
Frequency		47-63Hz							
Max. Current[*1]		22A	33A	66A	99A	132A	197.4A	246.7A	296.1A
Power Factor		≥ 0.9 (Max. Power)					≥ 0.85 (Max. Power)		
Power (VA)		10kVA	15kVA	30kVA	45kVA	60kVA	80kVA	100kVA	120kVA
Phase		1Ø / 2 Wire + G							
Voltage Ranges	Low(V)	0V-155.0V (L-N)							
	High(V)	0V-310.0V (L-N)							
Voltage Resolution		0.1V							
Voltage Accuracy		0.5% F.S.+4counts							
Frequency Range[*2]		Standard : 45-65Hz Option : 45-65Hz, 100Hz / 120Hz / 200Hz / 240Hz / 400Hz							
Frequency Resolution		0.01Hz							
Frequency Accuracy		±0.02% F.S.							
Max. Current	Low(A)	83.3A	125A	250A	375A	500A	666.7A	833.3A	1000A
	High(A)	41.7A	62.5A	125A	187.5A	250A	333.3A	416.7A	500A
Line Regulation		< 1%							
Load Regulation		≤ 1% (Resistive Load)							
Total Harmonic Distortion[*3]		≤ 2% (Resistive Load)							
Response Time		≤ 2ms							
Voltage Range									
Voltage Resolution		0.1V							
Voltage Accuracy		0.5% F.S.+4counts							
Frequency Range									
Frequency Resolution		0.1Hz							
Frequency Accuracy		±0.02% F.S.							
Current Range(RMS)		0 - 83.3A	0 - 125A	0 - 250A	0 - 375A	0 - 500A	0 - 666.7A	0 - 833.3A	0 - 1000A
Current Resolution(RMS)									
Current Accuracy(RMS)									
Power Range		0 - 10kW	0 - 15kW	0 - 30kW	0 - 45kW	0 - 60kW	0 - 80kW	0 - 100kW	0 - 120kW
Power Resolution									
Power Accuracy		1% F.S.+6counts							
Efficiency		≥ 90% at Max. Power					≥ 85% at Max. Power		
HMI		7" Touch Screen			10" Touch Screen				
Memories		6 sets (M1/M2/M3/M4/M5/M6)							
Protection		Input : N.F.B, Over Voltage, Under Voltage Output : Over Voltage, Over Current, Over Temperature							
Remote Interface		Standard : RS-232 &RS-485							
Operating Temperature		0℃ ~45℃							
Humidity		0-90% (Non condensing)							
Altitude		< 1,500m							
Dimensions (H x W x D)[*4]		1045 x 600 x 800 mm (including wheels)		1440 x 600 x 800 mm (including wheels)	1645 x 800 x 800 mm (including wheels)		1800 x 1050 x 950 mm		1900 x 1150 x 1200 mm
		41.1 x 23.6 x 31.5 inch (including wheels)		56.7 x 23.6 x 31.5 inch (including wheels)	64.8 x 31.5 x 31.5 inch (including wheels)		70.9 x 41.3 x 38.2 inch		74.8 x 45.3 x 48.0 inch
Weight[*4]		225kg	270kg	440kg	560kg	650kg	750kg	940kg	1100kg
		496.1lbs	595.4lbs	970.2lbs	1234.8lbs	1433.3lbs	1653.8lbs	2072.7lbs	2425.5lbs

*1 The max. current is based on a rated input voltage of 380V minus 15%. *2 For frequency option, please contact us for output power characteristic curve.
*3 When the output voltage is at Low : 90-140V or High 180-280V with load power factor of 1.
*4 Dimensions and weight are for input voltage 220/380V. Please contact us for dimensions and weight for other input voltage.
* All specifications are subject to change without notice. The specifications are tested at ambient temperature of 25℃ ± 5℃ .

VPC Series Three-Phase Output (5kVA-80kVA)

Model		VPC-33005	VPC-33010	VPC-33015	VPC-33030	VPC-33045	VPC-33060	VPC-33080
INPUT								
Phase		3Ø / 3 Wire + G						
Voltage		380Vac ±15% (option: 220 / 208VAC)				380Vac ±15% (option: 480VAC)		
Frequency		47-63Hz						
Max. Current*1		11A	22A	33A	66A	99A	132A	
Power Factor		≥ 0.9 Max. Power						≥ 0.85 Max. Power
Power (VA)		5kVA	10kVA	15kVA	30kVA	45kVA	60kVA	
Phase		3Ø / 4 Wire + G						
Voltage Ranges	Low(V)	0V-155.0V (L-N)						
	High(V)	0V-310.0V (L-N)						
Voltage Resolution		0.1V						
Voltage Accuracy		0.5% F.S.+4counts						
Frequency Range*2		Standard : 45-65Hz Option : 45-65Hz, 100Hz/120Hz/200Hz/240Hz/400Hz						
Frequency Resolution		0.1Hz						
Frequency Accuracy		±0.02% F.S.						
Max. Current	Low(A)	13.9A	27.8A	41.7A	83.3A	125A	166.7A	222.2A
	High(A)	6.9A	13.9A	20.8A	41.7A	62.5A	83.3A	111.1A
Line Regulation		≤ 1%						
Load Regulation		≤ 1% (Resistive Load)						
Total Harmonic Distortion*3		≤ 2% (Resistive Load)						
Response Time		≤ 2ms						
Voltage Range		0V-310.0V						
Voltage Resolution		0.1V						
Voltage Accuracy		0.5% F.S.+4counts						
Frequency Range		45-400Hz						
Frequency Resolution		0.01Hz						
Frequency Accuracy		±0.02% F.S.						
Current Range(RMS)		0 - 13.9A	0 - 27.8A	0 - 41.7A	0 - 83.3A	0 - 125A	0 - 166.7A	
Current Resolution(RMS)		0.1A						
Current Accuracy(RMS)		0.5% F.S.+4counts						
Power Range		0 - 5kW	0 - 10kW	0 - 15kW	0 - 30kW	0 - 45kW	0 - 60kW	
Power Resolution		0.1kW						
Power Accuracy		1% F.S.+6counts						
Efficiency		≥ 90% at Max. Power						≥ 85 % at Max. Power
HMI		7" Touch Screen				10" Touch Screen		
Memories		6 sets (M1/M2/M3/M4/M5/M6)						
Protection		Input : N.F.B, Over Voltage, Under Voltage Output : Over Voltage, Over Current, Over Temperature						
Remote Interface		Standard : RS-232 &RS-485						
Operating Temperature		0℃ ~ 45℃						
Humidity		0-90% (Non condensing)						
Altitude		< 1,500m						
Dimensions (H x W x D) *4		1045 x 600 x 800 mm (including wheels)		1440 x 600 x 800 mm (including wheels)		1645 x 800 x 800 mm (including wheels)		1800 x 1050 x 970 mm
		41.1 x 23.6 x 31.5 inch (including wheels)		56.7 x 23.6 x 31.5 inch (including wheels)		64.8 x 31.5 x 31.5 inch (including wheels)		70.9x41.3x38.2 inch
Weight *4		205kg	255kg	295kg	390kg	540kg	650kg	1000kg
		452lbs	562.3lbs	650.5lbs	860lbs	1190.7lbs	1433.3lbs	2205lbs

*1 TThe max. current is based on a rated input voltage of 380V minus 15%.
*2 For frequency option, please contact us for output power characteristic curve.
*3 When the output voltage is at Low : 90-140V or High 180-280V with load power factor of 1.
*4 Dimensions and weight are for input voltage 380V. Please contact us for dimensions and weight for other input voltage.
* All specifications are subject to change without notice. The specifications are tested at ambient temperature of 25℃ ± 5℃ .

VPC Series Three-Phase Output (100kVA-640kVA)

Model		VPC-33100	VPC-33120	VPC-33160	VPC-33240	VPC-33300	VPC-33400	VPC-33500	VPC-33640
INPUT									
Phase		3 Ø / 3 Wire + G							
Voltage*1		380Vac ±15% (option: 480VAC)							
Frequency		47-63Hz							
Max. Current*2		246.7A	296.1A	394.7A	592.1A	740.2A	986.9A	1233.6A	1579A
Power Factor		≥ 0.85 (Max. Power)							
OUTPUT									
Power (VA)		100kVA	120kVA	160kVA	240kVA	300kVA	400kVA	500kVA	640kVA
Phase		3Ø / 4 Wire + G							
Voltage Ranges	Low(V)*6	0-155 V (L-N)							
	High(V)	0-310 V (L-N)							
Voltage Resolution		0.1V							
Voltage Accuracy		0.5% F.S.+4 counts							
Frequency Range*3		Standard : 45-65Hz Option : 45-65Hz, 100Hz/120Hz/200Hz/240Hz/400Hz							
Frequency Resolution		0.1Hz							
Frequency Accuracy		±0.02% F.S							
Max. Current (RMS)	Low(A)	277.8A	333.3A	444.4A	666.7A	833.3A	1111.1A	1388.9A	1777.8A
	High(A)	138.9A	166.7A	222.2A	333.3A	416.7A	555.6A	694.4A	888.9A
Line Regulation		≤ 1%							
Load Regulation		≤ 1% (Resistive Load)							
Total HarmonicDistortion(THD)*4		≤ 2% (Resistive Load)							
Response Time		≤ 2ms							
MEASUREMENT									
Voltage Range		0V-310.0V							
Voltage Resolution		0.1V							
Voltage Accuracy		0.5% F.S.+4 counts							
Frequency Range		45-400Hz							
Frequency Resolution		0.01Hz							
Frequency Accuracy		±0.02% F.S.							
Current Range(RMS)		0 - 277.8A	0 - 333.3A	0 - 444.4A	0 - 666.7A	0 - 833.3A	0 - 1111.1A	0 - 1388.9A	0 - 1777.8A
Current Resolution(RMS)		0.1A							
Current Accuracy(RMS)		0.5% F.S.+4counts							
Power Range		0 - 100kW	0 - 120kW	0 - 160kW	0 - 240kW	0 - 300kW	0 - 400kW	0 - 500kW	0 - 640kW
Power Resolution		0.1kW							
Power Accuracy		1% F.S.+6counts							
GENERAL									
Efficiency		≥ 85% at Max. Power							
HMI		10" Touch Screen							
Memories		6 sets (M1/M2/M3/M4/M5/M6)							
Protection		Input : N.F.B, Over Voltage, Under Voltage, Output : Over Voltage, Over Current, Over Temperature							
Remote Interface		Standard : RS-232 &RS-485							
Operating Temperature		0℃ ~ 45℃							
Humidity		0-90% (Non condensing)							
Altitude		< 1,500m							
Dimensions (H x W x D) *5		1800 x 1050 x 970 mm	1900 x 1150 x 1200 mm			2050 x 3880x 1539 mm			2050 x 4716 x 1520 mm
		70.9 x 41.3 x 38.2 inch	74.8 x 45.3 x 48.8 inch			80.7 x 152.8 x 60.6 inch			80.7 x 185.7 x 59.8 inch
Weight *5		1170kg	1450kg	1850kg	2800kg	3450kg	4450kg	5550kg	7800kg
		2579.8lbs	3197.3lbs	4079.3lbs	6174lbs	7607.25lbs	9812.25lbs	12237.8lbs	17199lbs

*1 Please contact us for other input voltage specifications.
*2 The max. current is based on a rated input voltage of 380V minus 15%.
*3 For frequency option, please contact us for output power characteristic curve.
*4 When the output voltage is at Low : 90-140V or High 180-280V with load power factor of 1.
*5 Dimensions and weight are for input voltage 380V. Please contact us for dimensions and weight for other input voltage.
*All specifications are subject to change without notice. The specifications are tested at ambient temperature of 25℃ ± 5℃ .
*6 Please contact us for specifications
** For output power ranging from 160kVA to 640kVA, please contact us for the dimensions.

VPC Series Single-Phase Output (10kVA-120kVA)

Model Number	Description
VPC-11005-E	High Power Programmable AC Power Source (5kVA/310V/47Hz-63Hz;50Hz;60Hz)
VPC-11010	High Power Programmable AC Power Source (10kVA/310V/45-65Hz)
VPC-11015	High Power Programmable AC Power Source (15kVA/310V/45-65Hz)
VPC-11030	High Power Programmable AC Power Source (30kVA/310V/45-65Hz)
VPC-31010	High Power Programmable AC Power Source (10kVA/310V/45-65Hz)
VPC-31015	High Power Programmable AC Power Source (15kVA/310V/45-65Hz)
VPC-31030	High Power Programmable AC Power Source (30kVA/310V/45-65Hz)
VPC-31045	High Power Programmable AC Power Source (45kVA/310V/45-65Hz)
VPC-31060	High Power Programmable AC Power Source (60kVA/310V/45-65Hz)
VPC-31080	High Power Programmable AC Power Source (80kVA/310V/45-65Hz)
VPC-31100	High Power Programmable AC Power Source (100kVA/310V/45-65Hz)
VPC-31120	High Power Programmable AC Power Source (120kVA/310V/45-65Hz)

VPC Three-Phase Output(10kVA-640kVA)

Model Number	Description
VPC-33005	High Power Programmable AC Power Source (5kVA/310V/45-65Hz)
VPC-33010	High Power Programmable AC Power Source (10kVA/310V/45-65Hz)
VPC-33015	High Power Programmable AC Power Source (15kVA/310V/45-65Hz)
VPC-33030	High Power Programmable AC Power Source (30kVA/310V/45-65Hz)
VPC-33045	High Power Programmable AC Power Source (45kVA/310V/45-65Hz)
VPC-33060	High Power Programmable AC Power Source (60kVA/310V/45-65Hz)
VPC-33080	High Power Programmable AC Power Source (80kVA/310V/45-65Hz)
VPC-33100	High Power Programmable AC Power Source (100kVA/310V/45-65Hz)
VPC-33120	High Power Programmable AC Power Source (120kVA/310V/45-65Hz)
VPC-33160	High Power Programmable AC Power Source (160kVA/310V/45-65Hz)
VPC-33240	High Power Programmable AC Power Source (240kVA/310V/45-65Hz)
VPC-33300	High Power Programmable AC Power Source (300kVA/310V/45-65Hz)
VPC-33400	High Power Programmable AC Power Source (400kVA/310V/45-65Hz)
VPC-33500	High Power Programmable AC Power Source (500kVA/310V/45-65Hz)
VPC-33640	High Power Programmable AC Power Source (640kVA/310V/45-65Hz)
VPC-001	45-65Hz, 100Hz/120Hz/200Hz/240Hz/400Hz
VPC-006	Overload Capability 200% 2 sec, 150% 5 sec, 125% 15 sec[*1]
VPC-007	Input Voltage 208Vac
VPC-008	Input Voltage 480Vac
VPC-009	Input Voltage 220Vac
VPC-010	Input Voltage 400Vac

*1 Please contact us for specifications.

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