



| Three Phase 6 kVA - 125 kVA |



The VRP is a highly sophisticated automatic precision AC voltage regulator that ensures maintenance free operation of electronic equipment over a very wide input voltage range.

TSI Power's VRP series is designed to provide high precision power with industry leading response time of one-half line cycle (10 ms or less).

Features and Benefits

Standby operation minimizes interaction with existing loads or power distribution systems, while being compatible with most loads

Wide input range ($\pm 20\%$) and precise output regulation ($\pm 3\%$) provides superior performance.

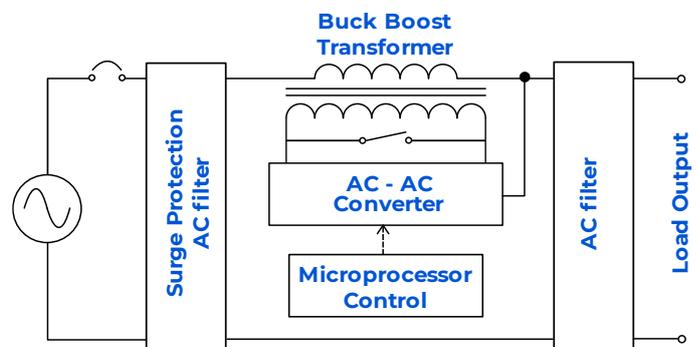
Various AC input/output connector type wiring terminals facilitate specific applications.

Internal surge protection and noise filtering assures trouble-free operation.

AC input circuit breakers and load over-current protection prevents costly equipment damage.

Customizable for unique and challenging applications.

How the VRP works



The high frequency Insulated Gate Bi-polar Transistor (IGBT) driven converter takes the incoming AC power, measures it against the nominal voltage reference and adds or subtracts voltage to achieve a precisely regulated output voltage. The automatic bypass will be activated when there is a fault condition. Green LEDs are used to indicate Normal (regulating mode) operation.

Model Number Selection Guide

VRP- -

Rated frequency

Frequency	Suffix
50/60 Hz	A
60 Hz	B

Input / Output wiring connections*

Wiring connection	Suffix
Hard-wired	11

Rated voltage (L-N/L-L)

Voltage	Suffix
120 V/208 V	C
127 V/220 V	D
230 V/400 V	F
240 V/415 V	G
277 V/480 V	J

Rated capacity in kVA

208 V	220 V	400 V	415 V	480 V
6	6	6	6	7
9	9	8	9	10
14	15	17	17	20
23	24	22	23	27
29	30	28	29	33
47	50	44	46	53
		50	52	60
		55	58	66
		104	108	125

Example:

Model VRP-20k-J11B will have rated capacity of 20 kVA, rated voltage of three phase 480V, with hard wired input and output connectors, and rated frequency of 60 Hz.

Note 1: For custom build models, please contact TSI Power. Contact information can be found on the last page of this document.

Technical Specifications*

[208 V_{L-L} / 120 V_{L-N}]

Model	VRP-6k-C11B	VRP-9k-C11B
Electrical		
Capacity / (kVA)	5.76	8.64
Design topology	High-performance PWM voltage regulator operating at 20 kHz	
Voltage correction time	8 ms (½ line cycle)	
AC Input		
Input voltage range	Three phase wye 208 V _{L-L} / 120 V _{L-N} ± 20% (96 – 144 V _{L-N})	
Frequency	60 Hz ± 5 %	
Input circuit breaker rating	20 A	30 A
AC Input connector	Hard-wired	
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes	
AC Output		
Output voltage	208 V L-L / 120 V L-N ± 3%	
Power efficiency	97% typical (for load of 50 to 100%)	
Maximum rated output current	16 A	24 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault	
Output connector	Hard-wired	
Physical		
Dimension†	Type 1	
Weight	220 lbs (100 kg)	230 lbs (104 kg)
Mounting	Casters standard, optional C-channel floor mounting kit	
Max wire size (hard-wired)	8 AWG (10 mm ²)	
Environmental		
Operating temperature range	32° to +104° F (0° to +40° C)	
Operating humidity range	10 to 90% relative humidity (non-condensing)	
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)	
Storage temperature range	-4° to +140° F (-20° to +60°C)	
Safety		
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)	
Warranty		
Two-year limited warranty on parts and labor		

***Note 1:** For continuous product improvement, specifications are subject to change without notice.

†**Note 2:** Refer to Page 16 and Page 17 for cabinet illustrations and detailed dimensions.

Technical Specifications*

[208 V_{L-L} / 120 V_{L-N}]

Model	VRP-14k-C11B	VRP-23k-C11B	VRP-29k-C11B	VRP-54k-C11B
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Electrical

Capacity / (kVA)	14.40	23.04	28.80	54.00
Design topology	High-performance PWM voltage regulator operating at 20 kHz			
Voltage correction time	8 ms (½ line cycle)			

AC Input

Input voltage range	Three phase wye 208 V _{L-L} / 120 V _{L-N} ± 20% (96 – 144 V _{L-N})			
Frequency	60 Hz ± 5 %			
Input Circuit breaker rating	50 A	80 A	100 A	None
AC Input connector	Hard-wired			
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes			

AC Output

Output voltage	208 V L-L / 120 V L-N ± 3%			
Power efficiency	97% typical (for load of 50 to 100%)			
Maximum rated output current	40 A	64 A	80 A	150 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault			
Output connector	Hard-wired			

Physical

Dimension†	Type 1			Type 2
Weight	260 lbs (118 kg)	325 lbs (147 kg)	340 lbs (154 kg)	600 lbs (272 kg)
Mounting	Casters standard, optional C-channel floor mounting kit			
Max wire size (hard-wired)	8 AWG (10 mm ²)	2 AWG (35 mm ²)	2 AWG (35 mm ²)	4/0 AWG (95 mm ²)

Environmental

Operating Temperature Range	32° to +104° F (0° to +40° C)			
Operating Humidity Range	10 to 90% relative humidity (non-condensing)			
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)			
Storage temperature range	-4° to +140° F (-20° to +60°C)			

Safety

Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)			
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Warranty

Two-year limited warranty on parts and labor

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Technical Specifications*

[220 V_{L-L} / 127 V_{L-N}]

Model	VRP-6k-D11B	VRP-9k-D11B
Electrical		
Capacity / (kVA)	6.10	9.14
Design topology	High-performance PWM voltage regulator operating at 20 kHz	
Voltage correction time	8 ms (½ line cycle)	
AC Input		
Input voltage range	Three phase wye 220 VL-L / 127 VL-N ± 20% (102 – 152 VL-N)	
Frequency	60 Hz ± 5 %	
Input circuit breaker rating	20 A	30 A
AC Input connector	Hard-wired	Hard-wired
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes	
AC Output		
Output voltage	220 V L-L / 127 V L-N ± 3%	
Power efficiency	97% typical (for load of 50 to 100%)	
Maximum rated output current	16 A	24 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault	
Output connector	Hard-wired	Hard-wired
Physical		
Dimension†	Type 1	
Weight	220 lbs (100 kg)	230 lbs (104 kg)
Mounting	Casters standard, optional C-channel floor mounting kit	
Max wire size (hard-wired)	8 AWG (10 mm ²)	
Environmental		
Operating temperature range	32° to +104° F (0° to +40° C)	
Operating humidity range	10 to 90% relative humidity (non-condensing)	
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)	
Storage temperature range	-4° to +140° F (-20° to +60°C)	
Safety		
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)	
Warranty		
Two-year limited warranty on parts and labor		

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Technical Specifications*

[220 V_{L-L} / 127 V_{L-N}]

Model	VRP-15k-D11B	VRP-24k-D11B	VRP-30k-D11B	VRP-57k-D11B
Electrical				
Capacity / (kVA)	15.24	24.38	30.48	57.15
Design topology	High-performance PWM voltage regulator operating at 20 kHz			
Voltage correction time	8 ms (½ line cycle)			
AC Input				
Input voltage range	Three phase wye 220 V _{L-L} / 127 V _{L-N} ± 20% (102 – 152 V _{L-N})			
Frequency	60 Hz ± 5 %			
Input Circuit breaker rating	50 A	80 A	100 A	None
AC Input connector	Hard-wired			
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes			
AC Output				
Output voltage	220 V L-L / 127 V L-N ± 3%			
Power efficiency	97% typical (for load of 50 to 100%)			
Maximum rated output current	40 A	64 A	80 A	150 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault			
Output connector	Hard-wired			
Physical				
Dimension†	Type 1			Type 2
Weight	260 lbs (118 kg)	325 lbs (147 kg)	340 lbs (154 kg)	600 lbs (272 kg)
Mounting	Casters standard, optional C-channel floor mounting kit			
Max wire size (hard-wired)	8 AWG (10 mm ²)	2 AWG (35 mm ²)	2 AWG (35 mm ²)	4/0 AWG (95 mm ²)
Environmental				
Operating Temperature Range	32° to +104° F (0° to +40° C)			
Operating Humidity Range	10 to 90% relative humidity (non-condensing)			
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)			
Storage temperature range	-4° to +140° F (-20° to +60°C)			
Safety				
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)			
Warranty				
Two-year limited warranty on parts and labor				

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Technical Specifications*

[400 V_{L-L} / 230 V_{L-N}]

Model	VRP-6k-F11A	VRP-8k-F11A	VRP-17k-F11A
Electrical			
Capacity / (kVA)	5.52	8.28	16.56
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	10 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 400 V _{L-L} / 230 V _{L-N} ± 20% (184 – 276 V _{L-N})		
Frequency	50 / 60 Hz ± 5 %		
Input Circuit breaker rating	10 A	15 A	30 A
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	400 V _{L-L} / 230 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	8 A	12 A	24 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		
Weight	220 lbs (100 kg)	230 lbs (104 kg)	260 lbs (118 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	8 AWG (10 mm ²)		
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[400 V_{L-L} / 230 V_{L-N}]

Model	VRP-22k-F11A	VRP-28k-F11A	VRP-44k-F11A	VRP-50k-F11A
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Electrical

Capacity / (kVA)	22.08	27.60	44.16	49.68
Design topology	High-performance PWM voltage regulator operating at 20 kHz			
Voltage correction time	10 ms (½ line cycle)			

AC Input

Input voltage range	Three phase wye 400 V _{L-L} / 230 V _{L-N} ± 20% (184 – 276 V _{L-N})			
Frequency	50 / 60 Hz ± 5 %			
Input Circuit breaker rating	40 A	50 A	80 A	90 A
AC Input connector	Hard-wired			
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes			

AC Output

Output voltage	400 V _{L-L} / 230 V _{L-N} ± 3%			
Power efficiency	97% typical (for load of 50 to 100%)			
Maximum rated output current	32 A	40 A	64 A	72 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault			
Output connector	Hard-wired			

Physical

Dimension†	Type 1			
Weight	325 lbs (147 kg)	340 lbs (154 kg)	360 lbs (163 kg)	380 lbs (172 kg)
Mounting	Casters standard, optional C-channel floor mounting kit			
Max wire size (hard-wired)	8 AWG (10 mm ²)		2 AWG (35 mm ²)	

Environmental

Operating Temperature Range	32° to +104° F (0° to +40° C)			
Operating Humidity Range	10 to 90% relative humidity (non-condensing)			
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)			
Storage temperature range	-4° to +140° F (-20° to +60°C)			

Safety

Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)			
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Warranty

Two-year limited warranty on parts and labor

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Technical Specifications*

[400 V_{L-L} / 230 V_{L-N}]

Model	VRP-55k-F11A	VRP-104k-F11A
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Electrical

Capacity / (kVA)	55.2	103.8
Design topology	High-performance PWM voltage regulator operating at 20 kHz	
Voltage correction time	10 ms (½ line cycle)	

AC Input

Input voltage range	Three phase wye 400 V _{L-L} / 230 V _{L-N} ± 20% (184 – 276 V _{L-N})	
Frequency	50 / 60 Hz ± 5 %	
Input Circuit breaker rating	100 A	None
AC Input connector	Hard-wired	
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes	

AC Output

Output voltage	400 V _{L-L} / 230 V _{L-N} ± 3%	
Power efficiency	97% typical (for load of 50 to 100%)	
Maximum rated output current	80 A	150 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault	
Output connector	Hard-wired	

Physical

Dimension†	Type 1	Type 2
Weight	400 lbs (181 kg)	900 lbs (408 kg)
Mounting	Casters standard, optional C-channel floor mounting kit	
Max wire size (hard-wired)	2 AWG (35 mm ²)	4/0 AWG (95 mm ²)

Environmental

Operating Temperature Range	32° to +104° F (0° to +40° C)
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)
Storage temperature range	-4° to +140° F (-20° to +60°C)

Safety

Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)
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Warranty

Two-year limited warranty on parts and labor

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Technical Specifications*

[415 V_{L-L} / 240 V_{L-N}]

Model	VRP-6k-G11A	VRP-9k-G11A	VRP-17k-G11A
Electrical			
Capacity / (kVA)	5.76	8.64	17.28
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	10 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 415 V _{L-L} / 240 V _{L-N} ± 20% (192 – 288 V _{L-N})		
Frequency	50 / 60 Hz ± 5 %		
Input Circuit breaker rating	10 A	15 A	30 A
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	415 V _{L-L} / 240 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	8 A	12 A	24 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		
Weight	220 lbs (100 kg)	230 lbs (104) kg	260 lbs (118 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	8 AWG (10 mm ²)		
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[415 V_{L-L} / 240 V_{L-N}]

Model	VRP-23k-G11A	VRP-29k-G11A	VRP-46k-G11A
Electrical			
Capacity / (kVA)	23.04	28.80	46.08
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	10 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 415 V _{L-L} / 240 V _{L-N} ± 20% (192 – 288 V _{L-N})		
Frequency	50 / 60 Hz ± 5 %		
Input Circuit breaker rating	40 A	50 A	80 A
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	415 V _{L-L} / 240 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	32 A	40 A	64 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		
Weight	325 lbs (147 kg)	340 lbs (154 kg)	360 lbs (163 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	8 AWG (10 mm ²)		2 AWG (35 mm ²)
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[415 V_{L-L} / 240 V_{L-N}]

Model	VRP-52k-G11A	VRP-58k-G11A	VRP-108k-G11A
Electrical			
Capacity / (kVA)	51.84	57.60	108.29
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	10 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 415 V _{L-L} / 240 V _{L-N} ± 20% (192 – 288 V _{L-N})		
Frequency	50 / 60 Hz ± 5 %		
Input Circuit breaker rating	90 A	100 A	None
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	415 V _{L-L} / 240 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	72 A	80 A	150.4 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		Type 2
Weight	380 lbs (172 kg)	400 lbs (181 kg)	900 lbs (408 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	2 AWG (35 mm ²)		4/0 AWG (95 mm ²)
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[480 V_{L-L} / 277 V_{L-N}]

Model	VRP-7k-J11B	VRP-10k-J11B	VRP-20k-J11B
Electrical			
Capacity / (kVA)	6.65	9.97	19.94
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	8 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 480 V _{L-L} / 277 V _{L-N} ± 20% (221 – 332 V _{L-N})		
Frequency	60 Hz ± 5 %		
Input Circuit breaker rating	10 A	15 A	30 A
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	480 V _{L-L} / 277 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	8 A	12 A	24 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		
Weight	220 lbs (100 kg)	230 lbs (104 kg)	260 lbs (118 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	8 AWG (10 mm ²)		
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[480 V_{L-L} / 277 V_{L-N}]

Model	VRP-27k-J11B	VRP-33k-J11B	VRP-53k-J11B
Electrical			
Capacity / (kVA)	26.59	33.24	53.18
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	8 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 480 V _{L-L} / 277 V _{L-N} ± 20% (221 – 332 V _{L-N})		
Frequency	60 Hz ± 5 %		
Input Circuit breaker rating	40 A	50 A	80 A
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	480 V _{L-L} / 277 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	32 A	40 A	64 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		
Weight	325 lbs (147 kg)	340 lbs (154 kg)	360 lbs (163 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	8 AWG (10 mm ²)		2 AWG (35 mm ²)
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

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Technical Specifications*

[480 V_{L-L} / 277 V_{L-N}]

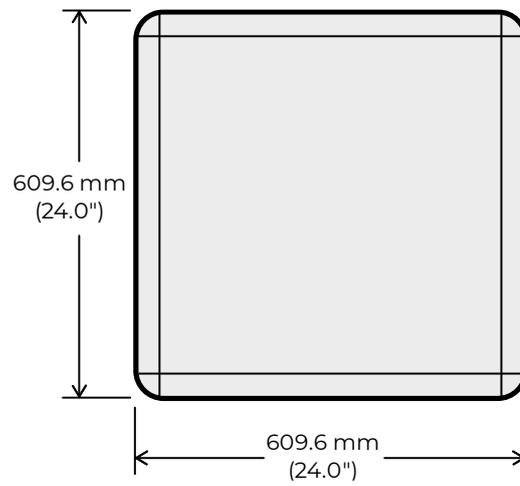
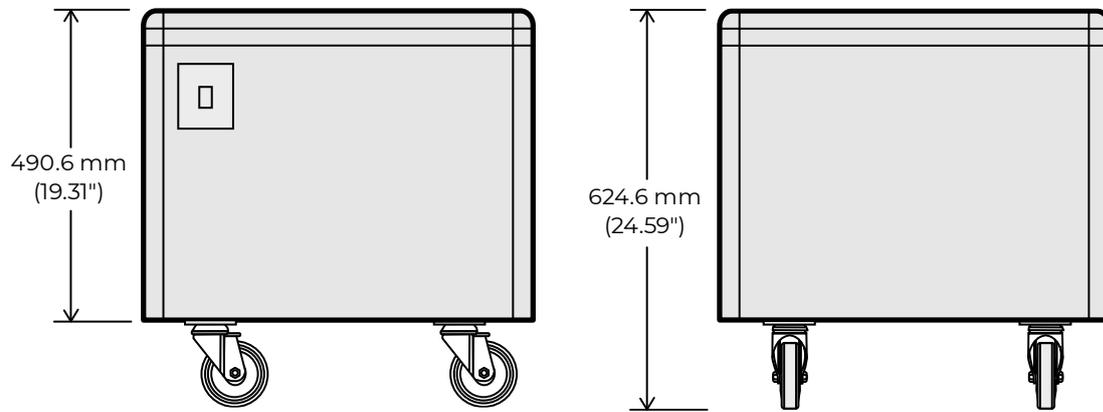
Model	VRP-60k-J11B	VRP-66k-J11B	VRP-125k-J11B
Electrical			
Capacity / (kVA)	59.83	66.48	125.00
Design topology	High-performance PWM voltage regulator operating at 20 kHz		
Voltage correction time	8 ms (½ line cycle)		
AC Input			
Input voltage range	Three phase wye 480 V _{L-L} / 277 V _{L-N} ± 20% (221 – 332 V _{L-N})		
Frequency	60 Hz ± 5 %		
Input Circuit breaker rating	90 A	100 A	None
AC Input connector	Hard-wired		
Surge protection	Three-stage surge protector protects both the VRP and connected equipment from surges & spikes		
AC Output			
Output voltage	480 V _{L-L} / 277 V _{L-N} ± 3%		
Power efficiency	97% typical (for load of 50 to 100%)		
Maximum rated output current	72 A	80 A	150 A
System status indicator	Green LED ON-Normal operation - Amber LED ON-Bypass operation Red LED ON-Fault		
Output connector	Hard-wired		
Physical			
Dimension†	Type 1		Type 2
Weight	380 lbs (172 kg)	400 lbs (181 kg)	900 lbs (408 kg)
Mounting	Casters standard, optional C-channel floor mounting kit		
Max wire size (hard-wired)	2 AWG (35 mm ²)		4/0 AWG (95 mm ²)
Environmental			
Operating Temperature Range	32° to +104° F (0° to +40° C)		
Operating Humidity Range	10 to 90% relative humidity (non-condensing)		
Operating altitude range	0 to 2,000 meters (6,600 ft) above sea level (without derating output power)		
Storage temperature range	-4° to +140° F (-20° to +60°C)		
Safety			
Agency approvals	Designed to meet UL 60950 (UL/cUL listing pending)		
Warranty			
Two-year limited warranty on parts and labor			

***Note 1:** For continuous product improvement, specifications are subject to change without notice.

†**Note 2:** Refer to Page 16 and Page 17 for cabinet illustrations and detailed dimensions.

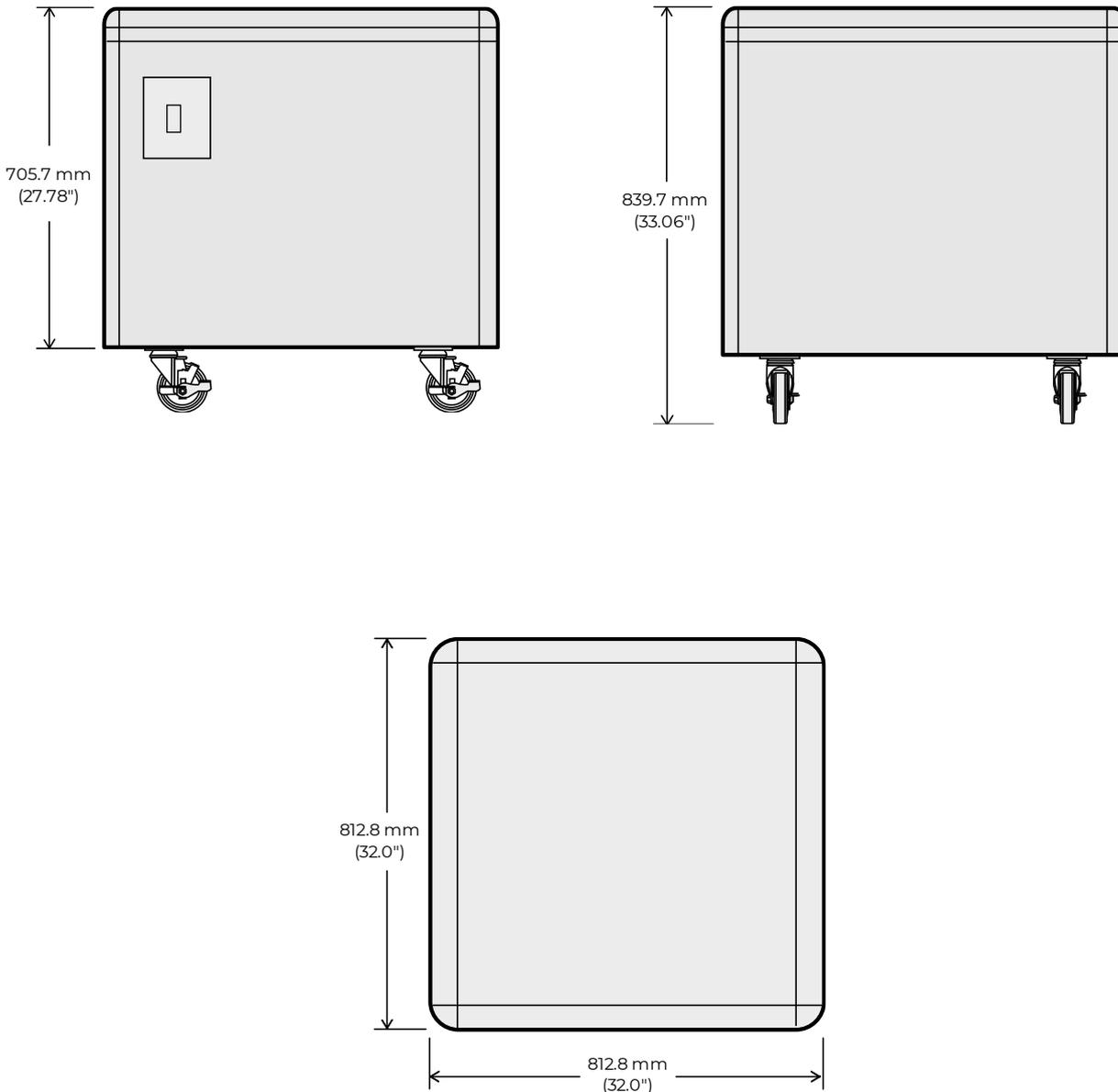
Dimensions

Type 1



Dimensions

Type 2



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