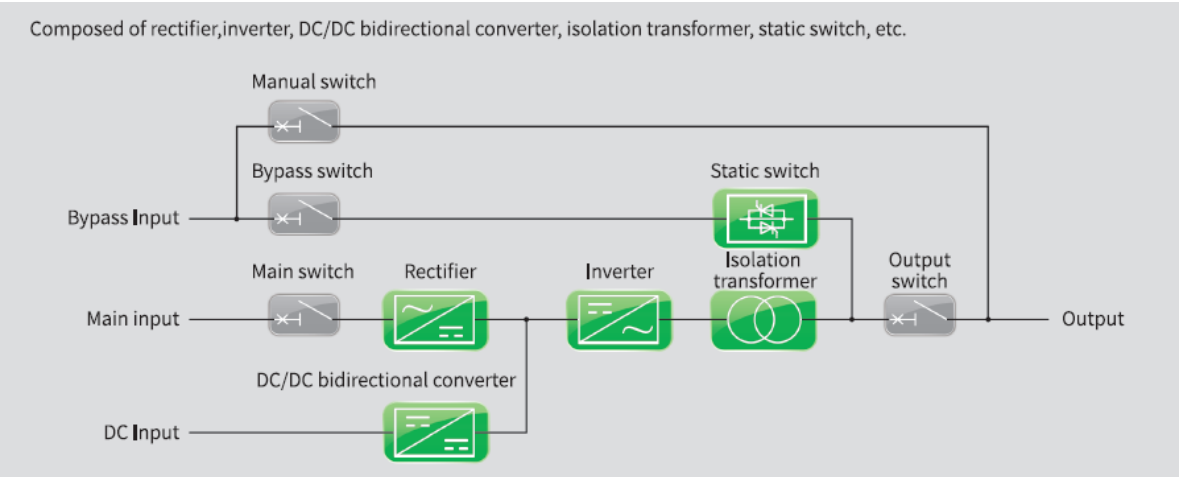
DYNAMIC VOLTAGE REGULATOR VR SERIES

Technology: Voltage Regulator
Rating: 10kVA – 1600kVA
Voltage: 400VAC
Configuration: Cabinet

PowerHub Dynamic Voltage Regular VR series uses super capacitors, lithium-ion batteries and other components as energy storage components, adopting advanced power electronic conversion technology and digital control technology to provide short-term energy storage backup solutions to effectively control voltage sag, short-term interruption and other issues, with strong stability, high reliability, high efficiency and other characteristics.

Product Highlights:

- Fast response, typical response time < 2ms, and the response time is less than 5ms under the worst circumstance;
- Flexible compensation time, typical compensation is 3s, more backup time can be customized according to customers' requirements;
- Using the super capacitor as energy storage component, the number of charge and discharge times can reach 1 million times;
- Redundant design of equipment to achieve high reliability;
- Control voltage sag, voltage swell, short-term interruption and other issues simultaneously; Full power design of inverters supports 100% drop of three-phase input voltage.
- The target value of voltage adjustment can be set on site, and the default value is from -15% to 15%;
- The efficiency of the electronic bypass working state is over 99%, which greatly reduces the cost of power loss;
- Free of maintenance and attendance, saving labor costs.



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System Specification	Rated Output(kVA)	10	50	100	150	300	400	500	600	800	1000	1200	1600
	Rated AC Input Voltage	3P4W，208/220/380/400/415/460/480VAC											
	Input Voltage Range	±15%											
	Mains Frequency	50/60Hz											
	Inline Methods	Down-line（can be customized）											
Performance Index	Compensation capacity	6s		3s						1.5s			
	Voltage Adjustment Target Value	Default setting -15%～+15%,could be set on-site											
	Fast Response Time	<100μs											
	Full Response Time	Typical response time ⩽ 2ms,Wosrt circumstances response time⩽5ms											
	Control Voltage Sag	Yes											
	Control Voltage Swell	Yes											
	Control Short-term Interruption	Yes											
	Cooling Mode	Intelligent air cooling											
Bypass	Electronic Bypass	Yes											
	Maintenance Switch	Yes											
Display & Alarm	Display	10-inch full color touch screen, Chinese/English bilingual display											
	State & Data Display:	Operation Status, Main Connection Diagram, Analog Quantity, State Information of Power Components and Energy Storage Components, Temperature of Key Components and System Fault Information, etc.											
	Protection	High/Low Voltage Protection, Over temperature Protection, Overload Protection, Short Circuit Protection											
	Communication	RS485/MODBUS protocol, 8 sets of switch alarm connection											
	Events and Data Records	Yes											
Overall Specification	Overall Efficiency	>99%（Electronic bypass working status）											
	Load Power Factor	0.5 lag～0.9 ahead											
	Fixed Mode	whole cabinet type											
	Noise	<65dB(1 meter from front)											
	Working Temperature	-5°C～45°C（23°F～113°F）											
	Relative Humidity	5%～95%（No condensation）											
	Altitude	<1000m，1000m above，according to GB/T3859.2 reduction：for every 100 m increase, power decreases by 1%.											
	Protection Level	IP20（other can be customized）											
	Color	RAL7035（other can be customized）											
	Size(mm)W×D×H energy storage components not included	600×800×1800		800×850×1900		1600×1000×1900						*TBC*	
	Rated output(kVA)	10	50	100	150	300	400	500	600	800	1000	1200	1600

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