

# **SBW-W SERIES** Intelligent power stabilizer

Number control technology

Large capacity

High efficiency

Support remote communication



Comply with IEC/GBT standards

Provide your house energy storage solution

Whole solutions for design, assembly, test...

Accountable solution for safety and reliability

Wide range offering, easy business and ready to use out of the box



Table of contents

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About us / contact us	1
Summary	2
System structure	3
Main technical parameters	4
After-sales service	6



Zhejiang Rockwill Energy Technology Co., Ltd. is a technology enterprise specializing in providing complete solutions for power automation system and related automation system supporting equipment.

The company has a long-term strategic cooperation with internationally renowned middle and high voltage electrical equipment R & D and manufacturing companies and research institutes, and has jointly developed a series of high-quality automation products,. The company has also married with the provincial intelligent high-voltage switch laboratory to jointly develop a new generation of intelligent synchronous switch measurement and control devices, electronic transformers, voltage sensor processing units, etc., and has achieved some fruitful technical achievements and accumulated a large number of industry professional and technical elites with excellent experience. Solid talent base, advanced production equipment, perfect quality system, strict testing means, is a strong guarantee for the company's product quality alone.

In addition to providing a rich choice of products, we can provide you with technical solution support services, you only need to tell us your needs, our technical staff will be tailored for you to design a complete set of product solutions

The company is renowned at home and abroad for providing high-quality products and services. In addition to the domestic market, the products are currently exported to South America, Central Asia, the Middle East, Central Europe, Southeast Asia, Africa and other places. We always adhere to the belief of growing together with customers, and strive to provide safer, more reliable, more advanced and more humane automation system solutions and equipment.

ROCKWILL<sup>®</sup>, China. Provide with best support.

If you have any question please consult below:

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ROCKWILL® Energy strives to bring our customers the latest technology and competitive pricing and best service for distribution automatic.

SBW-W,DBW-W series three (single) phase intelligent contactless AC voltage stabilizer integrates digitalization and humanization, and has a powerful information acquisition system, signal processing system, detection and control system and a complete protection system.

This voltage-stabilized power supply is an energy-saving, environmentally friendly and highly efficient power supply product. It integrates advanced thyristor contactless switch, microcomputer-controlled AC voltage stabilization technology and transformer. It has high efficiency and energy saving, fast adjustment, three-phase automatic balancing, no carbon brush wear and mechanical failure, and has overvoltage, undervoltage, phase sequence (optional), phase loss, overcurrent protection and reporting functions. The thyristor of this voltage stabilizer adopts the current zero-crossing trigger mode, and the switching is safe and smooth without interfering with the power grid; the multi-channel synchronous switching greatly improves the adjustment time of the voltage stabilizer; the advanced main circuit and control system design of the voltage stabilizer effectively improves the dynamic stability and eliminates the damage to the system and devices caused by the common current impact and overvoltage generated by the contactless switch, and it has a strong instantaneous overload capacity, thereby greatly improving the safety and reliability of the system operation. The personalized design of this voltage-stabilized power supply, powerful human-computer dialogue function, intuitive LCD display and status indication monitoring interface make it very simple and con

### Service environment

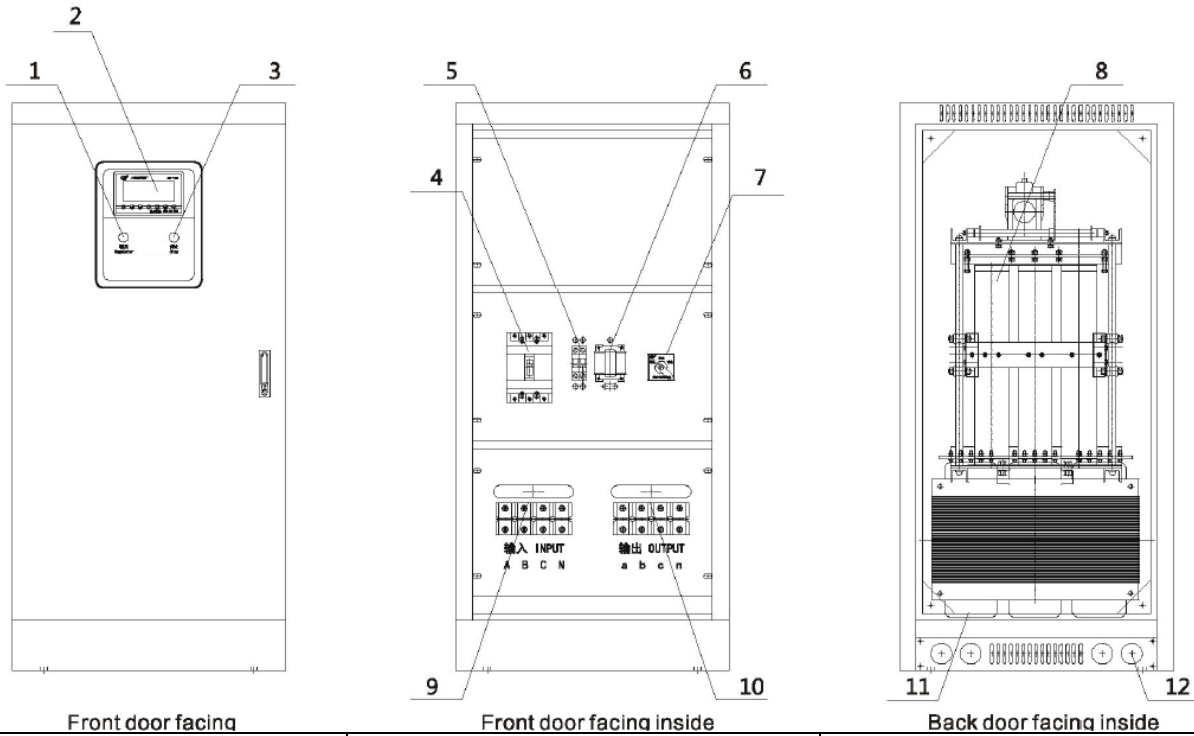
Air temperature: Ambient temperature:  $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Humidity: 0% ~ 90% (Non-congealing cream)

Above sea level:  $-100 \sim 1000\text{m}$

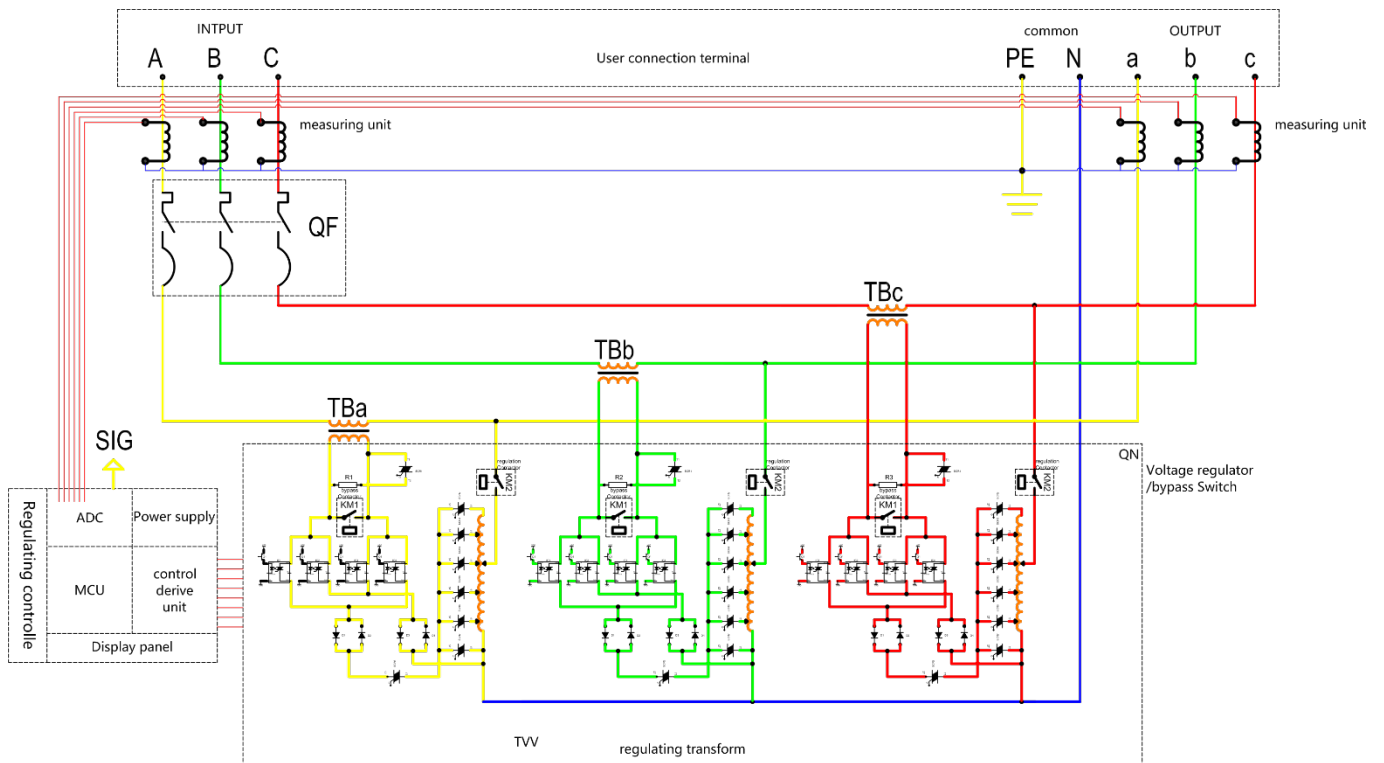
Install site Free of severe vibration or bumps

Product display:



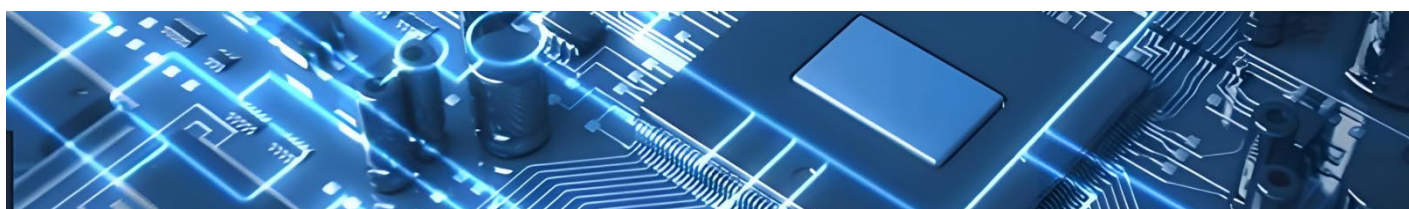
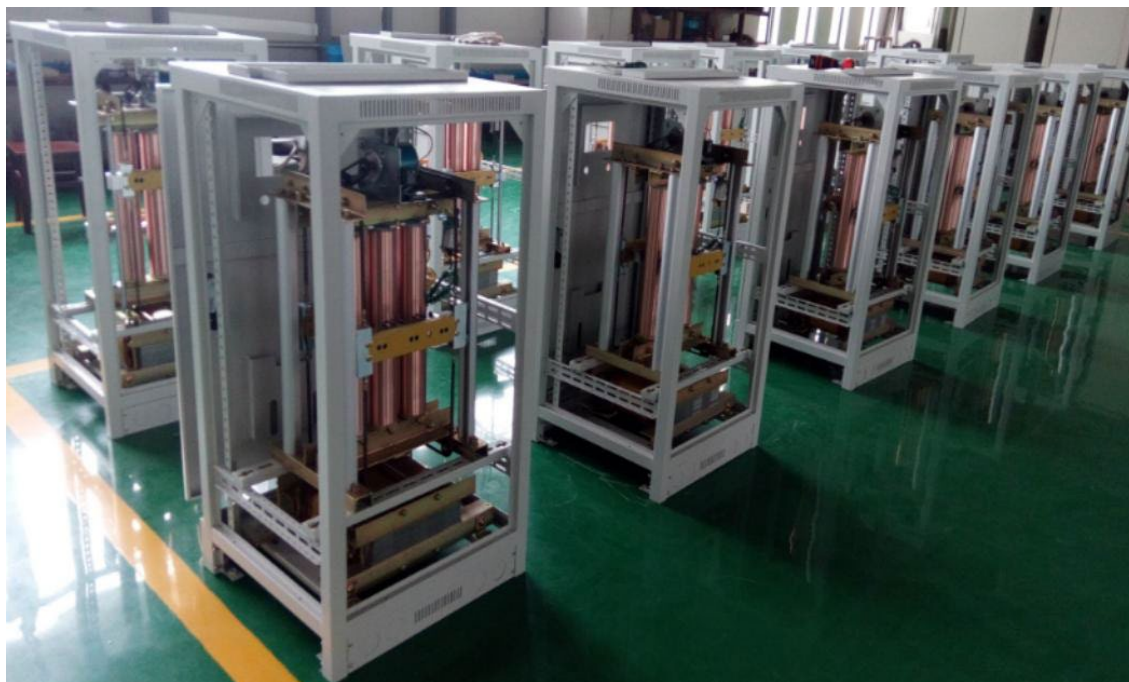
Front door facing	Front door facing inside	Back door facing inside
1.stable Voltage indicator lighting	2.Intelligent control display	3.Stop button
4.Mian power switch	5.Control loop fuse	6.Control power transform
7.gird/stabilization switch	8.Voltage regulating transform	9.Input terminal block
10.output terminal block	11. Compensation transform	12. cable entry and exit hole

system structure:



Input	Input Voltage range	3-phase 5line AC380V±20%
	Rated Voltage range	3-phase 5line AC380V±15%
	Rated frequency	50Hz/60Hz
Output	Rate output Voltage	3-phase 5line AC380V (adjustable)
	Center Voltage	±5% adjustable (adjustable)
	Voltage stabilization accuracy	1%~5%
	Response time	≤0.1s
	Stabilization time	≤1S
	Waveform distortion	Increment ≤0.5%
	Efficiency	≥97%
	3-phase unbalance	Increment ≤0.5%
	Operation mode	Manual Voltage regulator/automatic Voltage regulator
Protection	Over-voltage	Default 10% 6s cut off
	Under-voltage	Default 12% 12s cut off
	Overload	Inverse-time curve cut off
	Overcurrent	Inverse-time curve cut off
	Short-circuit	Instantaneous Cut off
	Bypass	Manual direct-through device
Display and alarm	Input voltage display	Automatic rotation display UAB UBC UCA
	output voltage display	Automatic rotation display UAB UBC UCA
	line current display	Automatic rotation display IA IB IC
	Working status display and report	a. over-voltage, b. under-voltage, c. overload
Safety regulations	Ground	≥10mm <sup>2</sup>
	Electrical clearance and creepage distance	≥22mm
	Dielectric strength	≥20MΩ
	work frequency withstand voltage	AC2000V1Min ≤20mA
Optional feature		Lighting protection device
		EMI filter device
		Phase sequence, phase loss protection function
		Communication interface

Model	Input Voltage	Rated capacity	Rated current	Size	Weight
SBW-S-20	3-phase AC380V ±20%	20KVA	30A	600*600*1200(mm)	165kg
SBW-S-30		30KVA	46A		175kg
SBW-S-50		50KVA	76A		200kg
SBW-S-60		60KVA	91A		210kg
SBW-S-80		80KVA	121A	650*680*1280(mm)	230kg
SBW-S-100		100KVA	152A		250kg
SBW-S-120		120KVA	182A		280kg
SBW-S-150		150KVA	228A	700*850*1500(mm)	340kg
SBW-S-180		180KVA	273A		380kg
SBW-S-200		200KVA	300A		400kg
SBW-S-225		225KVA	342A		465kg
SBW-S-250		250KVA	380A		485kg
SBW-S-320		320KVA	486A	800*900*1700(mm)	580kg
SBW-S-400		400KVA	608A		660kg
SBW-S-500		500KVA	760A	900*1100*1800(mm)	830kg
SBW-S-600		600KVA	912A		920kg
SBW-S-800		800KVA	1216A	1000*1200*2000(mm)	1100kg
SBW-S-1000		1000KVA	1520A	(1200+1200)*900*2200(mm) 2 cabinets	1700kg
SBW-S-1200		1200KVA	1824A		1900kg
SBW-S-1400		1400KVA	2127A		2200kg
SBW-S-1600	1600KVA	2431A	(1200+1100+1400)* 900*2200(mm) 3 cabinets	2700kg	
SBW-S-2000	2000KVA	3038A	(1400+1100+1100+1400)* 900*2200(mm) 4 cabinets	3500kg	
SBW-S-2500	2500KVA	3800A	(1550+1200+1200+1550)* 900*2200(mm) 4 cabinets	4200kg	
SBW-S-3200	3200KVA	4862A	(1500+1500+1500+1500+1500)* 900*2200(mm) 5 cabinets	5700kg	
DBW-S-10	Single-phase AC220V ±20%	10KVA	45.4A	600*600*1200(mm)	150kg
DBW-S-15		15KVA	68.2A		155kg
DBW-S-20		20KVA	91A		160kg
DBW-S-30		30KVA	136A		180kg
DBW-S-40		40KVA	182A	190kg	
DBW-S-50		50KVA	228A	650*680*1280(mm)	210kg
DBW-S-60		60KVA	273A		220kg
DBW-S-80		80KVA	363A		260kg
DBW-S-100		100KVA	454A	700*850*1500(mm)	310kg



Field service operation and warranty issues:

ROCKWILL® can provide competent, well trained field service representatives to provide technical guidance and advisory assistance for the installation, overhaul, repair and maintenance of ROCKWILL® equipment, processes and systems.

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