AUTOMATIC VOLTAGE REGULATOR / STABILIZER
THREE PHASE : 380VAC (3/3)

SBE-SERIES 10 – 2000 KVA

Static Electronics Control System

Ideal applications :
Multi-Color Printing , Medical Equipment
CNC Machines , Laser Cutting Machines
Industrial process controllers , etc.

INTRODUCTION

SBE- series static automatic AC voltage regulator stabilizer is designed with compensating transformer of high primary to secondary ratio for voltage correction of ± 20%. Direct AC-AC converter circuit and SCR module controlled to improve the overall system response with fast voltage correction. PWM control Operation time of 1 to 1.5 cycle Excellent performance in voltage sentitive application. When the supply voltage of the distribution power grid fluctuates or the load changes, the voltage automatically. The size is two-thirds of traditional machine , to help customer save space. Humanized design with LCD digital indication , easy to operate

Features

- SCR Module Controlled , Maintenance Free
- Wide Input Voltage Range
- With Fans For Air Cooling
- Quick Response to Voltage Fluctuations
- High Efficiency
- Automatic Bypass
- Maintenance Free Electronic Voltage Management Technology
- LCD Display For Easy Monitoring
- Independent Voltage Regulation on Three Phase
- Full Protections
- RS485 Communication Port
- Compatible with Genset/Generator

Let your best power system

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SiliCON®

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ADVANCED PERFORMANCE

Feature	Description
Quick Response	12-digits high-speed AD sampling, every cycle sampling 128 points, digit processing calculation by SCM, digital module quick compensation
Advanced sampling technology	12-digits AD sampling, digit filtering and effective value calculating by SCM
Precise Control	Perfect combination of mass PLD and SCM
User-friendly MMI	Set all parameter through MMI touching keypad.
No Wave Distortion	Non-contact zero-cross switch, common-frequency, phase lock, Sine wave overlay compensation principle
Harmonic Interference Resistance	Effective value voltage test
Wide Load Range	Compatible with resistive load, capacitive load, inductive load
Delay Output	Output after regulating
Full Protection	When over-voltage, under-voltage occurs, it can protect within 1s or uninterruptedly switch to by-pass, and with function of lack phase, overload, short circuit protection and sound-light alarm when error
Voltage/Current Indication	LCD to indicate voltage, current(phase voltage/line voltage can be switched display.)
Self-recovery	When overload, over-voltage, under-voltage, error occurs, it automatically switches to by-pass or disconnect output, and automatically continue to regulating when recover
Memory	Error will be recorded and can be checked when make maintenance
Communication Interface	RS485 Communication Interface
Indication	LCD or touch LCD

Model	Capacity (KVA)	Current (Amp)	Size (D*W*H) mm	Weight (KG)
SBE-10	10	15	420*500*700	150
SBE-20	20	30	420*500*700	175
SBE-30	30	45	420*500*700	183
SBE-50	50	76	480*600*800	214
SBE-80	80	121	520*700*900	275
SBE-100	100	152	520*700*900	315
SBE-120	120	182	520*700*1200	350
SBE-150	150	228	660*660*1600	420
SBE-180	180	273	660*660*1600	450
SBE-200	200	300	660*760*1600	650
SBE-250	250	380	660*660*1600	700
SBE-300	300	486	1100*800*1800	750
SBE-400	400	608	1100*800*1800	880
SBE-500	500	760	1100*800*1800	1100
SBE-600	600	912	1100*800*1800	1260
SBE-800	800	1216	1400*1000*2000	1380
SBE-1000	1000	1520	1400*1000*2200	1510
SBE-1200	1200	1824	1800*1000*2200	1630
SBE-1400	1400	2127	1800*1000*2200	1750
SBE-1600	1600	2431	1800*1000*2200	1890
SBE-2000	2000	3038	1800*1000*2200	2200

SPECIFICATIONS

AUTOMATIC VOLTAGE REGULATOR / STABILIZER	
Voltage Reguration System	Static Electronics Control System
	INPUT
Input Voltage	380VAC +/-20% (200/220/400/415VAC Optional)
Voltage Range	304-456 Vac
Frequency	50/60Hz
Phase	Three Phase four wire
Power Factor	0.98
	OUTPUT
Wavefrom	No additional waveforms generated (static)
Rated Voltage	380VAC (200/220/400/415VAC Optional)
Output Voltage	380VAC +/-2% (+/- 1% ~5% optional)
Response Time	20-200 ms (input voltage range +/-10%)
Efficiency	< 98% at Full load
Power Factor	0.8
	COMMUNICATION INTERFACE
LCD Display	Input Voltage Value , Output Voltage value , Output load Percent , Output Frequency,
	Stabilizer setting , Stabilizer Condition and Failure info Warnings
	(Overload , over temperrature , input failure , output Failure , etc
Remote Management	MOD-BUS RTU with RS485 connection
	PROTECTION
Over Voltage	cut off output or uninterrupted transfer to bypass, when output voltage over 10%
Low Voltage	cut off output or uninterrupted transfer to bypass, when output voltage lower than 10%
Phase Failure	cut off output automatically
Over Load	electronic detection, cut off output or uninterrupted transfer to main electricity with in 3 minutes
Over Current	with electronic detection and breaker
Short Circuit	with electronic detection and breaker
Bypass	uninterrupted automatic bypass (Manual Bypass Optional)
	INDICATION
Voltage Range	display A, B, C phase and ∑ABC phase value separately
Current	display A, B, C phase and ∑ABC phase value separately
Working Modes	regulating voltage mode/ main electricity mode
Abnormal	over voltage, under voltage, overload, fuse blown
	ENVIRONMENTAL CONDITIONS
Ambient Temperature	0 - 40℃
Altitude	< 3000 m
Humidity	0 - 95% (non-condensing)
Acoustic Noise	≤ 60dB
Cooling System	forced ventilation (Fan)

- All Specification subject to change without note.
- Custom-made specifications are acceptable