

Manufactured By:



SIRIUS

**Three-Phase Voltage Stabilizer
from 50 kVA up to 4000 kVA**



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pazifik
power

BE-3VS-SI-3F/3

SIRIUS

The three-phase SIRIUS line covers the range from 50kVA to 4000kVA and allows for the choice of several input voltage variation percentages within a broad range (from +30% up to -45%).

The SIRIUS type voltage stabilizers are supplied with independent regulation on each phase.

The SIRIUS type is used when the main is unbalanced and when unbalanced three-phase loads and/or single-phase loads need to be supplied. In this situation the presence of the neutral wire is required.

The stabilizers are air cooled (natural convection with cabinet internal temperature lower than 40°C).

The measuring instrumentation for the SIRIUS stabilizers is incorporated in a control panel on the cabinet door and consists of two multi-task digital network analysers. Such instruments are able to provide with information regarding the status of the lines upstream and downstream the voltage stabilizer such as phase and linked voltages, current, power factor, active power, apparent power, reactive power, etc.

The information concerning the output line can also be monitored on a remote PC via an RS485 output, an RS485/RS232 converter and a special software package (supplied with the unit).

Pilot lights are provided for each phase signaling 'power on', reaching of voltage regulation limits and direction of voltage regulation (increase/decrease).

Alarms for minimum and maximum voltages, maximum current, over-temperature and ventilation failure are also indicated. The alarm indicators are accompanied by an acoustic alarm.

All these signals are located on the control panel mounted on the cabinet door and consist of sets of LEDs.

The line supplying the voltage regulator is provided with an automatic by-pass.

The circuit works in case of temporary overload: It opens the connection between the voltage regulator and the buck/boost transformer and short-circuits the transformer primary winding at the same time.

By doing so, the transformer voltage drop is cancelled and the user can be supplied the main voltage (although not stabilized) without interruption.

The auxiliary circuit is protected by fuses.

The logic control, performed on the true rms voltage, is based on the 2-way DSP microprocessor. By using this device, monitoring the system and setting the stabilizer parameters via a PC connection are made possible.



SIRIUS STANDARD FEATURES

FREQUENCY	47/65Hz
ADMITTED LOAD VARIATION	from 0 up to 100%
ADMITTED LOAD UNBALANCE	up to 100%
MAINS WAVEFORM DISTORTION INCREMENT	< 0.2%
COOLING	Natural Air (aided over 40°C)
AMBIENT TEMPERATURE	-15/+45 °C
STORAGE TEMPERATURE	-25/+60°C
RELATIVE HUMIDITY	95%
ADMITTED OVERLOAD	200% 2min
COLOUR	RAL 7032
PROTECTION	IP 21
INSTALLATION	Indoor

Any other variation range not mentioned in the table above can be dealt with on request.

RATING IN RELATION TO THE INPUT VARIATION PERCENTAGE

±15%	±20%	±25%	±30%	-25/+15%	-35/+15%	-45/+15%
125	100	75	50	75	50	30
160	125	100	75	100	75	50
200	160	125	100	125	100	75
250	200	160	125	160	125	100
315	250	200	160	200	160	125
400	315	250	200	250	200	160
500	400	315	250	315	250	200
630	500	400	315	400	315	250
800	630	500	400	500	400	315
1000	800	630	500	630	500	400
1250	1000	800	630	800	630	500
1600	1250	1000	800	1000	800	630
2000	1600	1250	1000	1250	1000	800

SIRIUS ±15% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y125-15	125	400	212	400	181	>98	20	40	550
Y160-15	160	400	272	400	231	>98	20	40	600
Y200-15	200	400	340	400	289	>98	20	41	800
Y250-15	250	400	425	400	361	>98	20	41	900
Y315-15	315	400	535	400	455	>98	20	41	1200
Y400-15	400	400	680	400	578	>98	20	42	1400
Y500-15	500	400	850	400	723	>98	20	42	1600
Y630-15	630	400	1071	400	910	>98	20	42	2000
Y800-15	800	400	1361	400	1156	>98	24	43	2600
Y1000-15	1000	400	1700	400	1445	>98	24	43	2800
Y1250-15	1250	400	2125	400	1806	>98	24	44	3000
Y1600-15	1600	400	2720	400	2312	>98	24	44	3400
Y2000-15	2000	400	3400	400	2890	>98	24	44	3900

SIRIUS ±20% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±20% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y100-20	100	400	180	400	144	>98	15	40	550
Y125-20	125	400	226	400	181	>98	15	40	600
Y160-20	160	400	289	400	231	>98	15	41	800
Y200-20	200	400	361	400	289	>98	15	41	900
Y250-20	250	400	452	400	361	>98	15	41	1200
Y315-20	315	400	569	400	455	>98	15	42	1400
Y400-20	400	400	722	400	578	>98	15	42	1600
Y500-20	500	400	903	400	723	>98	15	42	2000
Y630-20	630	400	1138	400	910	>98	18	43	2600
Y800-20	800	400	1445	400	1156	>98	18	43	2800
Y1000-20	1000	400	1806	400	1445	>98	18	44	3000
Y1250-20	1250	400	2258	400	1806	>98	18	44	3400
Y1600-20	1600	400	2890	400	2312	>98	18	44	3900

VOLTAGE STABILISERS

SIRIUS ±25% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±25% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y75-25	75	400	144	400	108	>98	12	40	550
Y100-25	100	400	193	400	144	>98	12	40	600
Y125-25	125	400	241	400	181	>98	12	41	800
Y160-25	160	400	308	400	231	>98	12	41	900
Y200-25	200	400	385	400	289	>98	12	41	1200
Y250-25	250	400	482	400	361	>98	12	42	1400
Y315-25	315	400	607	400	455	>98	12	42	1600
Y400-25	400	400	770	400	578	>98	12	42	2000
Y500-25	500	400	963	400	723	>98	15	43	2600
Y630-25	630	400	1214	400	910	>98	15	43	2800
Y800-25	800	400	1541	400	1156	>98	15	44	3000
Y1000-25	1000	400	1927	400	1445	>98	15	44	3400
Y1250-25	1250	400	2408	400	1806	>98	15	44	3900

SIRIUS ±30% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±30% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y50-30	50	400	103	400	72	>98	10	40	550
Y75-30	75	400	155	400	108	>98	10	40	600
Y100-30	100	400	206	400	144	>98	10	41	800
Y125-30	125	400	258	400	181	>98	10	41	900
Y160-30	160	400	330	400	231	>98	10	41	1200
Y200-30	200	400	413	400	289	>98	10	42	1400
Y250-30	250	400	516	400	361	>98	10	42	1600
Y315-30	315	400	650	400	455	>98	10	42	2000
Y400-30	400	400	826	400	578	>98	12	43	2600
Y500-30	500	400	1032	400	723	>98	12	43	2800
Y630-30	630	400	1300	400	910	>98	12	44	3000
Y800-30	800	400	1651	400	1156	>98	12	44	3400
Y1000-30	1000	400	2064	400	1445	>98	12	44	3900

SIRIUS -25%/+15% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -25/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y75-15/25	75	400	144	400	108	>97	15	40	570
Y100-15/25	100	400	193	400	144	>97	15	40	680
Y125-15/25	125	400	241	400	181	>97	15	41	890
Y160-15/25	160	400	308	400	231	>97	15	41	1000
Y200-15/25	200	400	385	400	289	>97	15	41	1320
Y250-15/25	250	400	482	400	361	>97	15	42	1540
Y315-15/25	315	400	607	400	455	>97	15	42	1750
Y400-15/25	400	400	770	400	578	>97	15	42	2190
Y500-15/25	500	400	963	400	723	>97	18	43	2820
Y630-15/25	630	400	1214	400	910	>97	18	43	3050
Y800-15/25	800	400	1541	400	1156	>97	18	44	3750
Y1000-15/25	1000	400	1927	400	1416	>97	18	44	4300
Y1250-15/25	1250	400	2408	400	1806	>97	18	44	4430

SIRIUS -35%/+15% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

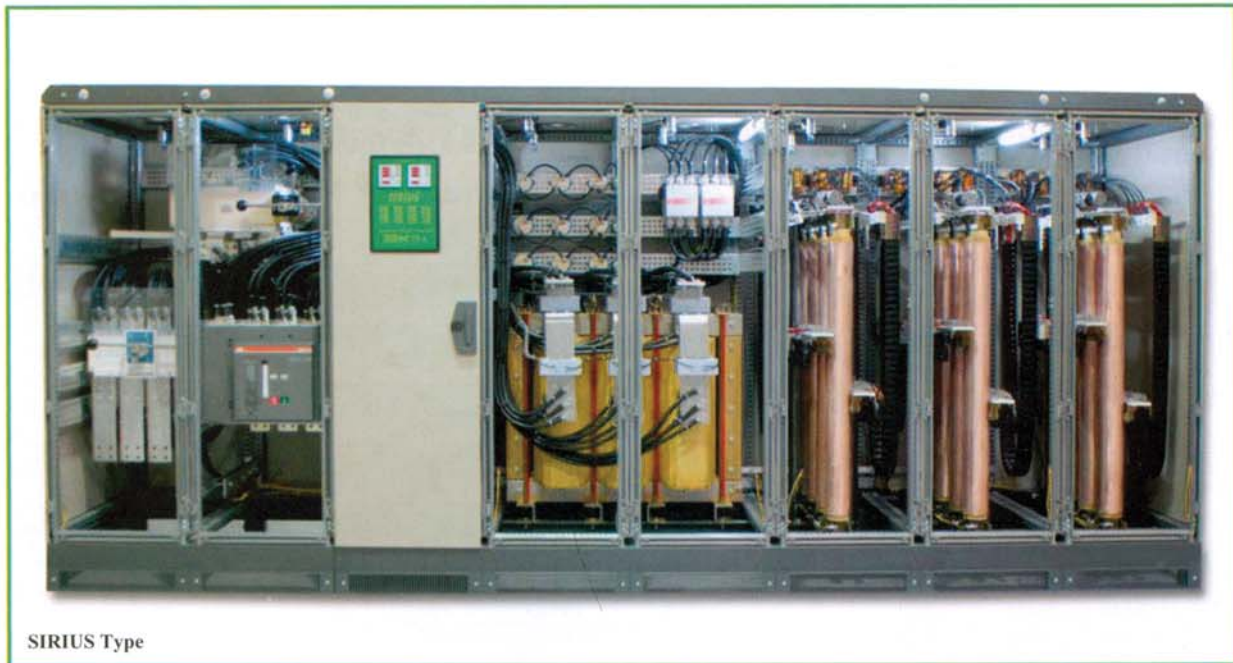
TYPE	RATED POWER [kVA]	INPUT VOLTAGE -35/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y50-15/35	50	400	111	400	72	>97	12	40	600
Y75-15/35	75	400	167	400	108	>97	12	40	750
Y100-15/35	100	400	222	400	144	>97	12	41	930
Y125-15/35	125	400	278	400	181	>97	12	41	1150
Y160-15/35	160	400	356	400	231	>97	12	41	1370
Y200-15/35	200	400	445	400	289	>97	12	42	1600
Y250-15/35	250	400	556	400	361	>97	12	42	1820
Y315-15/35	315	400	700	400	455	>97	12	42	2250
Y400-15/35	400	400	889	400	578	>97	15	43	3150
Y500-15/35	500	400	1112	400	723	>97	15	43	3380
Y630-15/35	630	400	1401	400	910	>97	15	44	3900
Y800-15/35	800	400	1779	400	1156	>97	15	44	4350
Y1000-5/35	1000	400	2223	400	1445	>97	15	44	4430

VOLTAGE STABILISERS

SIRIUS -45%/15% AUTOMATIC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -45/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 0.5\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y30-15/45	30	400	79	400	43	>97	10	40	780
Y50-15/45	50	400	131	400	72	>97	10	40	950
Y75-15/45	75	400	197	400	108	>97	10	41	1200
Y100-15/45	100	400	263	400	144	>97	10	41	1400
Y125-15/45	125	400	328	400	181	>97	10	41	1650
Y160-15/45	160	400	420	400	231	>97	10	42	1790
Y200-15/45	200	400	525	400	289	>97	10	42	1900
Y250-15/45	250	400	657	400	361	>97	10	42	2320
Y315-15/45	315	400	828	400	455	>97	12	43	2940
Y400-15/45	400	400	1051	400	578	>97	12	43	3500
Y500-15/45	500	400	1314	400	723	>97	12	44	4000
Y630-15/45	630	400	1655	400	910	>97	12	44	4430
Y800-15/45	800	400	2102	400	1156	>97	12	44	4700

The technical data in the above tables are subject to change by the Company either for internal reasons or because of a specific request from the Customer
 Input output voltage 50Hz: 380/415V - Input output voltage 60Hz: 460/480V



SIRIUS Type

“Valuing customer’s efficiency, effectiveness & competitiveness...”



HAPAM

Disconnecting Switches 15 kV
up to 800 kV (Hapam, Netherlands)



MTE Meter Test Equipment

State of the Art Meter Testing and Calibration
Equipment and Instrument Test Set (MTE, Germany)



Fully Electronic and Self-Adjusting
Fault Circuit Indicator Navigator (Horstmann, Germany)



ORMAZABAL

Hermetically sealed and SF6 insulated compact
switchgear up to 36kV (Ormazabal, Spain)

SÜDKABEL

HV Power Cables up to 525 kV
(Südkabel, Germany)



Landis Gyr manage energy better

Singlephase High Precision Superstatic and
Tamper Proof Meter (Landis+Gyr, Switzerland)



Dry-Type Cast Resin Insulated Outdoor/
Indoor C.T. and P.T. (WTW, Germany)

SUNLIGHT

SYSTEMS SUNLIGHT S.A. provides batteries
with two types of separators: AGM & GEL.
Both technologies maintain a constant distance between the
positive and the negative plates, allow the complete reaction
of the active materials with the electrolyte and eliminate
the short-circuit incidents. (Sunlight, Greece)



Turnkey Substation up to 50 MVA
(Pazifik Power, Philippines)



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