

ORION Y

The ORION three-phase stabiliser covers the power rating range between 2kVA and 450kVA and allows for the choice of several input voltage variation percentages within a broad range (from +30% up to -45%).

For $\pm 15\%$; $\pm 20\%$ and $\pm 25\%$; $\pm 30\%$ range, the change of stabilisation is obtained through different internal connections.

These stabilisers can be provided with two types of regulation. The regulation in the ORION Y stabilisers is independent on each phase. These stabilisers are used with three-phase loads and single-phase loads with 100% unbalance with unbalance input rated voltage. In this configuration, the voltage stabiliser requires the neutral wire presence. Automatic circuit breakers are provided on the regulation circuit to protect against overload and short circuit on the voltage regulator.

The auxiliary circuit is protected by fuses. The measuring instrumentation for the ORION stabilisers is installed on the cabinet door and consists of a **multi-task digital network analyser**. Such instrument is able to provide with information regarding the status of the line downstream the voltage stabiliser, such as phase and linked voltages, current, power factor, active power, apparent power, reactive power, etc. By means of a changeover contact, the stabiliser control card allows for the acoustic signalling of the following alarms: minimum voltage, maximum voltage, internal overheating and overload on the voltage regulator.

The logic control is based on a microprocessor.

ORION Y STANDARD FEATURES

FREQUENCY	47/65Hz
ADMITTED LOAD VARIATION	from 0 to 100%
ADMITTED LOAD UNBALANCE	up to 100%
MAINS WAVEFORM DISTORTION INCREMENT	< 0.2%
COOLING	Aided Air
AMBIENT TEMPERATURE	-15/+45 °C
STORAGE TEMPERATURE	-25/+60°C
RELATIVE HUMIDITY	95%
ADMITTED OVERLOAD	200% 2min
COLOUR	RAL 7035
PROTECTION	IP 21
INSTALLATION	Indoor

RATING IN RELATION TO THE INPUT VARIATION PERCENTAGE

$\pm 15\%$	$\pm 20\%$	$\pm 25\%$	$\pm 30\%$	-25/+15%	-35/+15%	-45/+15%
5	4	3	2	4	3	2
10	7	4	3	7	4	3
15	10	7	4	10	7	4
20	15	10	7	15	10	7
30	20	15	10	20	15	10
45	30	20	15	30	20	15
60	45	30	20	45	30	20
75	60	45	30	60	45	30
105	75	60	45	75	60	45
135	105	75	60	105	75	60
175	135	105	75	135	105	75
230	175	135	105	175	135	105
300	230	175	135	230	175	135
450	300	230	175	300	230	175

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

ORION Y ±20% ±15% THREE-PHASE AUTOMATIC VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±20% ±15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET	WEIGHT [kg]
Y4-20	4	400	7	400	6	>95	12	22	90
Y5-15	5	400	8	400	7	>95	16	22	90
Y7-20	7	400	13	400	10	>96	12	22	90
Y10-15	10	400	16	400	14	>96	16	22	90
Y10-20	10	400	17	400	14	>97	12	22	110
Y15-15	15	400	25	400	21	>97	16	22	110
Y15-20	15	400	26	400	21	>98	12	23	155
Y20-15	20	400	33	400	28	>98	16	23	155
Y20-20	20	400	36	400	29	>98	12	23	180
Y30-15	30	400	50	400	43	>98	16	23	180
Y30-20	30	400	54	400	43	>98	12	23	200
Y45-15	45	400	76	400	65	>98	16	23	200
Y45-20	45	400	81	400	65	>98	14	24	380
Y60-15	60	400	102	400	87	>98	18	24	380
Y60-20	60	400	107	400	86	>98	14	24	430
Y75-15	75	400	126	400	108	>98	18	24	430
Y75-20	75	400	135	400	108	>98	14	25	490
Y105-15	105	400	176	400	152	>98	18	25	490
Y105-20	105	400	187	400	150	>98	14	25	580
Y135-15	135	400	229	400	195	>98	18	25	580
Y135-20	135	400	244	400	195	>98	14	26	950
Y175-15	175	400	297	400	253	>98	18	26	950
Y175-20	175	400	316	400	253	>98	14	26	1030
Y230-15	230	400	390	400	332	>98	18	26	1030
Y230-20	230	400	415	400	332	>98	14	26	860
Y300-15	300	400	509	400	433	>98	18	26	860
Y300-20	300	400	542	400	433	>98	14	50	1300
Y450-15	450	400	765	400	650	>98	18	50	1300

ORION Y ±30% ±25% THREE-PHASE AUTOMATIC VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±30% ±25% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET	WEIGHT [kg]
Y2-30	2	400	4	400	3	>96	8	22	90
Y3-25	3	400	6	400	4	>96	10	22	90
Y3-30	3	400	6	400	4	>96	8	22	90
Y4-25	4	400	8	400	6	>97	10	22	90
Y4-30	4	400	8	400	6	>97	8	22	110
Y7-25	7	400	13	400	10	>98	10	22	110
Y7-30	7	400	14	400	10	>98	8	23	155
Y10-25	10	400	19	400	14	>98	10	23	155
Y10-30	10	400	20	400	14	>98	8	23	180
Y15-25	15	400	29	400	22	>98	10	23	180
Y15-30	15	400	31	400	22	>98	8	23	200
Y20-25	20	400	38	400	29	>98	10	23	200
Y20-30	20	400	41	400	29	>98	9	24	380
Y30-25	30	400	57	400	43	>98	11	24	380
Y30-30	30	400	61	400	43	>98	9	24	430
Y45-25	45	400	86	400	65	>98	11	24	430
Y45-30	45	400	93	400	65	>98	9	25	490
Y60-25	60	400	115	400	86	>98	11	25	490
Y60-30	60	400	123	400	87	>98	9	25	580
Y75-25	75	400	144	400	108	>98	11	25	580
Y75-30	75	400	154	400	108	>98	9	26	950
Y105-25	105	400	203	400	152	>98	11	26	950
Y105-30	105	400	217	400	152	>98	9	26	1030
Y135-25	135	400	260	400	195	>98	11	26	1030
Y135-30	135	400	278	400	195	>98	9	26	860
Y175-25	175	400	337	400	253	>98	11	26	860
Y175-30	175	400	361	400	253	>98	9	50	1300
Y230-25	230	400	443	400	332	>98	14	50	1300

ORION Y +15%/-25% THREE-PHASE AUTOMATIC VOLTAGE STABILISER

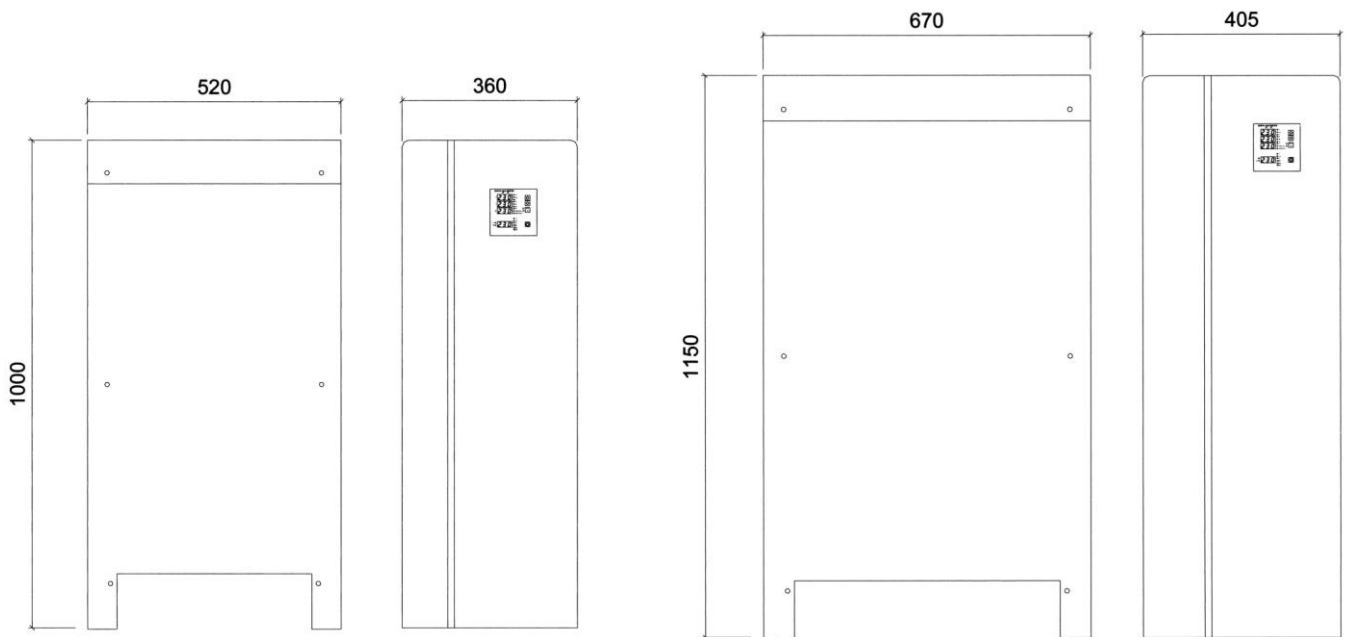
TYPE	RATED POWER [kVA]	INPUT VOLTAGE +15% -25% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE +/-0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET	WEIGHT [kg]
Y4-15/25	4	400	8	400	6	>94	12	22	100
Y7-15/25	7	400	13	400	10	>95	12	22	100
Y10-15/25	10	400	19	400	14	>96	12	22	120
Y15-15/25	15	400	27	400	22	>97	12	23	165
Y20-15/25	20	400	39	400	29	>97	12	23	190
Y30-15/25	30	400	57	400	43	>97	12	23	220
Y45-15/25	45	400	87	400	65	>97	14	24	400
Y60-15/25	60	400	116	400	87	>97	14	24	450
Y75-15/25	75	400	144	400	108	>97	14	25	510
Y105-15/25	105	400	202	400	152	>97	14	25	600
Y135-15/25	135	400	260	400	195	>97	14	26	950
Y175-15/25	175	400	337	400	253	>97	14	26	1030
Y230-15/25	230	400	443	400	332	>97	14	26	1200
Y300-15/25	300	400	578	400	433	>97	14	50	1500

ORION Y +15%/-35% THREE-PHASE AUTOMATIC VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE +15% -35% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE +/-0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET	WEIGHT [kg]
Y3-15/35	3	400	7	400	4	>94	10	22	100
Y4-15/35	4	400	9	400	6	>95	10	22	100
Y7-15/35	7	400	15	400	10	>96	10	22	120
Y10-15/35	10	400	21	400	14	>97	10	23	165
Y15-15/35	15	400	33	400	22	>97	10	23	190
Y20-15/35	20	400	44	400	29	>97	10	23	220
Y30-15/35	30	400	66	400	43	>97	11	24	400
Y45-15/35	45	400	100	400	65	>97	11	24	450
Y60-15/35	60	400	133	400	87	>97	11	25	510
Y75-15/35	75	400	166	400	108	>97	11	25	600
Y105-15/35	105	400	234	400	152	>97	11	26	950
Y135-15/35	135	400	300	400	195	>97	11	26	1030
Y175-15/35	175	400	389	400	253	>97	11	26	1200
Y230-15/35	230	400	511	400	332	>97	11	50	1500

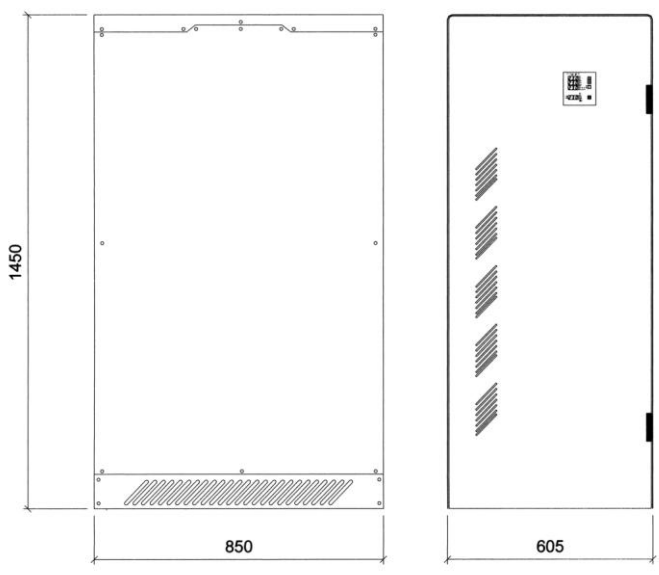
ORION Y +15%/-45% THREE-PHASE AUTOMATIC VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE +15% -45% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE +/-0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET	WEIGHT [kg]
Y2-15/45	2	400	5	400	3	>94	8	22	100
Y3-15/45	3	400	8	400	4	>95	8	22	100
Y4-15/45	4	400	10	400	6	>95	8	22	120
Y7-15/45	7	400	18	400	10	>96	8	23	165
Y10-15/45	10	400	25	400	14	>97	8	23	190
Y15-15/45	15	400	39	400	22	>97	8	23	220
Y20-15/45	20	400	52	400	29	>97	9	24	400
Y30-15/45	30	400	79	400	43	>97	9	24	450
Y45-15/45	45	400	118	400	65	>97	9	25	510
Y60-15/45	60	400	158	400	87	>97	9	25	600
Y75-15/45	75	400	196	400	108	>97	9	26	950
Y105-15/45	105	400	276	400	152	>97	9	26	1030
Y135-15/45	135	400	354	400	195	>97	9	26	1200
Y175-15/45	175	400	460	400	253	>97	9	50	1500

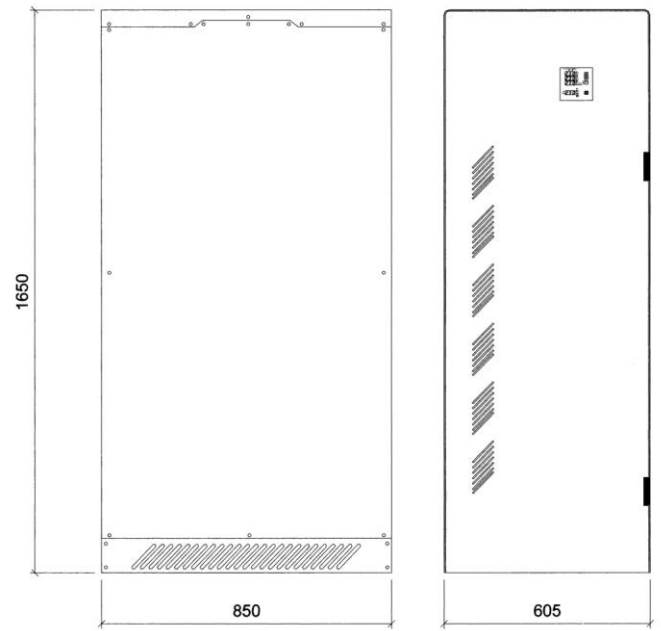


CABINET 22

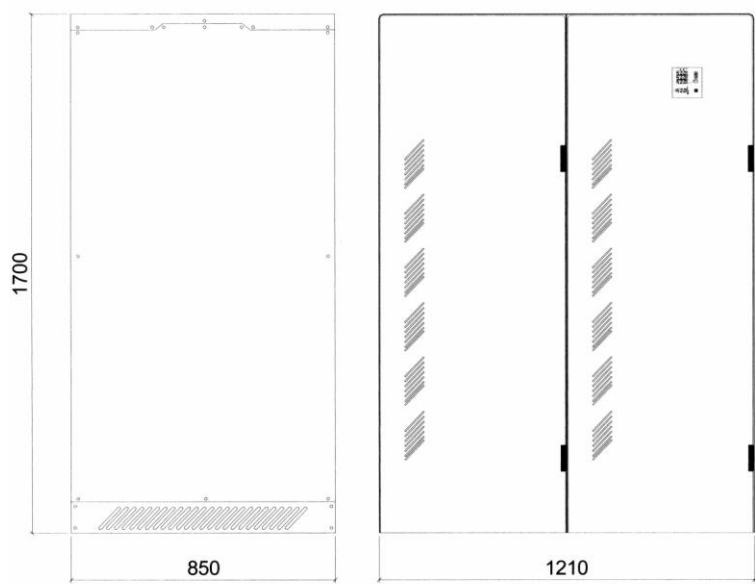
CABINET 23



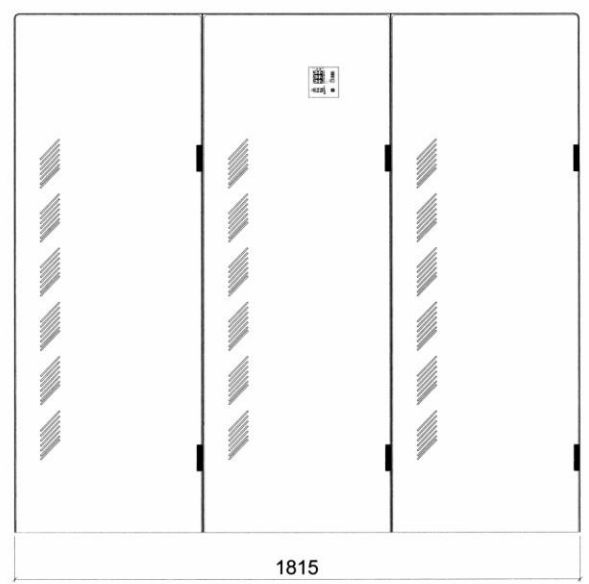
CABINET 24



CABINET 25



CABINET 26



CABINET 50