

# ORION PLUS

# THREE-PHASE 30-2000kVA

## Standard features



<b>Voltage stabilisation</b>	Independent phase control
<b>PC selectable output voltage*</b>	from 210V to 255V (L-N) from 360V to 440V (L-L)
<b>Output voltage accuracy</b>	±0,5%
<b>Frequency</b>	50Hz ±5% or 60Hz ±5%
<b>Admitted load variation</b>	Up to 100%
<b>Admitted load imbalance</b>	100%
<b>Cooling</b>	Natural ventilation (from 35°C aided with fans)
<b>Ambient temperature</b>	-25/+45°C
<b>Storage temperature</b>	-25/+60°C
<b>Max relative humidity</b>	<95% (non condensing)
<b>Admitted overload</b>	200% 2min.
<b>Harmonic distortion</b>	None introduced
<b>Colour</b>	RAL 7035
<b>Protection degree</b>	IP 21
<b>Instrumentation</b>	Input & Output digital multimeter
<b>Installation</b>	Indoor
<b>Oversvoltage protection</b>	<ul style="list-style-type: none"> <li>• Class II output surge arrestors</li> <li>• Optimal voltage return through supercapacitors in case of black-out</li> </ul>

\* Output voltage can be adjusted by choosing one of the indicated values.  
Such choice sets the new nominal value as a reference for all the stabiliser parameters.

## Ratings in relation to the input variation percentage

	±10%	±15%	±20%	±25%	±30%	+15/-35%	+15/-45%
125	80	60	45	30	45	30	
160	105	80	60	45	60	45	
200	135	105	80	60	80	60	
250	160	135	90	80	90	80	
320	200	160	135	105	135	105	
400	250	200	160	135	160	135	
500	320	250	200	160	200	160	
630	400	320	250	200	250	200	
800	500	400	320	250	320	250	
1000	630	500	400	320	400	320	
1250	800	630	500	400	500	400	
1600	1000	800	630	500	630	500	
2000	1250	1000	800	630	800	630	



All ORTEA equipments are designed and built in compliance with the Low Voltage and Electromagnetic Compatibility European Directives with regard to the CE marking requirements. ORTEA products are built with suitable quality components and that the manufacturing process is constantly verified in accordance with the Quality Control Plans which the Company applies in compliance with the ISO 9001 Standards. The commitment towards environmental issues and safety at work issues is guaranteed by the certification of the Management System according to the ISO14001 and OHSAS18001 Standards. In order to obtain better performance, the products described in the present document can be altered by the Company at any date and without prior notice. Technical data and descriptions do not hold therefore any contractual value.

Type	Input variation	Rated power	Input voltage range	Max input current	Output voltage	Rated output current	Eff.	Adjus. speed	Cabinet type	Cabinet dimensions WxDxH	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]		[mm]	[kg]

**Orion plus ±10%**

<b>135-10</b>	±10	135	360-440	216	400	194	>98	24	51	600x800x1800	430
<b>160-10</b>	±10	160	360-440	257	400	231	>98	24	51	600x800x1800	490
<b>200-10</b>	±10	200	360-440	321	400	289	>98	24	51	600x800x1800	580
<b>250-10</b>	±10	250	360-440	401	400	361	>98	30	42	800x800x2000	670
<b>320-10</b>	±10	320	360-440	513	400	462	>98	30	42	800x800x2000	720
<b>400-10</b>	±10	400	360-440	642	400	577	>98	30	42	800x800x2000	800
<b>500-10</b>	±10	500	360-440	802	400	722	>98	30	55	1200x800x1800	850
<b>630-10</b>	±10	630	360-440	1010	400	909	>98	30	55	1200x800x1800	1100
<b>800-10</b>	±10	800	360-440	1283	400	1155	>98	30	53	1200x800x2000	1300
<b>1000-10</b>	±10	1000	360-440	1604	400	1443	>98	30	62	1800x1000x2000	1530
<b>1250-10</b>	±10	1250	360-440	2005	400	1804	>98	36	62	1800x1000x2000	1900
<b>1600-10</b>	±10	1600	360-440	2566	400	2309	>98	36	63	2400x1000x2000	2400
<b>2000-10</b>	±10	2000	360-440	3208	400	2887	>98	36	64	3000x1000x2000	2650

The values listed in the table are referred to 400V nominal voltage

**Orion plus ±20%/±15%**

<b>60-20</b>	±20	60	320-480	108	400	87	>98	12	51	600x800x1800	430
<b>80-15</b>	±15	80	340-460	136	400	115	>98	16	51	600x800x1800	430
<b>80-20</b>	±20	80	320-480	144	400	115	>98	12	51	600x800x1800	490
<b>105-15</b>	±15	105	340-460	178	400	152	>98	16	51	600x800x1800	490
<b>105-20</b>	±20	105	320-480	189	400	152	>98	12	51	600x800x1800	580
<b>135-15</b>	±15	135	340-460	229	400	195	>98	16	51	600x800x1800	580
<b>135-20</b>	±20	135	320-480	243	400	195	>98	15	42	800x800x2000	670
<b>160-15</b>	±15	160	340-460	272	400	231	>98	20	42	800x800x2000	670
<b>160-20</b>	±20	160	320-480	289	400	231	>98	15	42	800x800x2000	720
<b>200-15</b>	±15	200	340-460	340	400	289	>98	20	42	800x800x2000	720
<b>200-20</b>	±20	200	320-480	361	400	289	>98	15	42	800x800x2000	800
<b>250-15</b>	±15	250	340-460	425	400	361	>98	20	42	800x800x2000	800
<b>250-20</b>	±20	250	320-480	451	400	361	>98	15	55	1200x800x1800	850
<b>320-15</b>	±15	320	340-460	543	400	462	>98	20	55	1200x800x1800	850
<b>320-20</b>	±20	320	320-480	577	400	462	>98	15	55	1200x800x1800	1100
<b>400-15</b>	±15	400	340-460	679	400	577	>98	20	55	1200x800x1800	1100
<b>400-20</b>	±20	400	320-480	722	400	577	>98	15	53	1200x800x2000	1300
<b>500-15</b>	±15	500	340-460	849	400	722	>98	20	53	1200x800x2000	1300
<b>500-20</b>	±20	500	320-480	902	400	722	>98	15	62	1800x1000x2000	1530
<b>630-15</b>	±15	630	340-460	1070	400	909	>98	20	62	1800x1000x2000	1530
<b>630-20</b>	±20	630	320-480	1137	400	909	>98	18	62	1800x1000x2000	1900
<b>800-15</b>	±15	800	340-460	1359	400	1155	>98	24	62	1800x1000x2000	1900
<b>800-20</b>	±20	800	320-480	1443	400	1155	>98	18	63	2400x1000x2000	2400
<b>1000-15</b>	±15	1000	340-460	1698	400	1443	>98	24	63	2400x1000x2000	2400
<b>1000-20</b>	±20	1000	320-480	1804	400	1443	>98	18	64	3000x1000x2000	2650
<b>1250-15</b>	±15	1250	340-460	2123	400	1804	>98	24	64	3000x1000x2000	2650

The values listed in the table are referred to 400V nominal voltage

Type	Input variation	Rated power	Input voltage range	Max input current	Output voltage	Rated output current	Eff.	Adjus. speed	Cabinet type	Cabinet dimensions WxDxH	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]		[mm]	[kg]

**Orion plus ±30%/±25%**

<b>30-30</b>	±30	30	280-520	62	400	43	>98	8	51	600x800x1800	430
<b>45-25</b>	±25	45	300-500	87	400	65	>98	10	51	600x800x1800	430
<b>45-30</b>	±30	45	280-520	93	400	65	>98	8	51	600x800x1800	490
<b>60-25</b>	±25	60	300-500	115	400	87	>98	10	51	600x800x1800	490
<b>60-30</b>	±30	60	280-520	124	400	87	>98	8	51	600x800x1800	580
<b>80-25</b>	±25	80	300-500	154	400	115	>98	10	51	600x800x1800	580
<b>80-30</b>	±30	80	280-520	165	400	115	>98	10	42	800x800x2000	670
<b>90-25</b>	±25	90	300-500	173	400	130	>98	12	42	800x800x2000	670
<b>105-30</b>	±30	105	280-520	217	400	152	>98	10	42	800x800x2000	720
<b>135-25</b>	±25	135	300-500	260	400	195	>98	12	42	800x800x2000	720
<b>135-30</b>	±30	135	280-520	278	400	195	>98	10	42	800x800x2000	800
<b>160-25</b>	±25	160	300-500	308	400	231	>98	12	42	800x800x2000	800
<b>160-30</b>	±30	160	280-520	330	400	231	>98	10	55	1200x800x1800	850
<b>200-25</b>	±25	200	300-500	385	400	289	>98	12	55	1200x800x1800	850
<b>200-30</b>	±30	200	280-520	412	400	289	>98	10	55	1200x800x1800	1100
<b>250-25</b>	±25	250	300-500	481	400	361	>98	12	55	1200x800x1800	1100
<b>250-30</b>	±30	250	280-520	516	400	361	>98	10	53	1200x800x2000	1300
<b>320-25</b>	±25	320	300-500	616	400	462	>98	12	53	1200x800x2000	1300
<b>320-30</b>	±30	320	280-520	660	400	462	>98	10	62	1800x1000x2000	1530
<b>400-25</b>	±25	400	300-500	770	400	577	>98	12	62	1800x1000x2000	1530
<b>400-30</b>	±30	400	280-520	825	400	577	>98	12	62	1800x1000x2000	1900
<b>500-25</b>	±25	500	300-500	962	400	722	>98	15	62	1800x1000x2000	1900
<b>500-30</b>	±30	500	280-520	1031	400	722	>98	12	63	2400x1000x2000	2400
<b>630-25</b>	±25	630	300-500	1212	400	909	>98	15	63	2400x1000x2000	2400
<b>630-30</b>	±30	630	280-520	1299	400	909	>98	12	64	3000x1000x2000	2650
<b>800-25</b>	±25	800	300-500	1540	400	1155	>98	15	64	3000x1000x2000	2650

The values listed in the table are referred to 400V nominal voltage

Type	Input variation	Rated power	Input voltage range	Max input current	Output voltage	Rated output current	Eff.	Adjus. speed	Cabinet type	Cabinet dimensions WxDxH	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]		[mm]	[kg]

### Orion plus +15%/-35%

<b>45-15/35</b>	+15/-35	45	260-460	100	400	65	>98	10	51	600x800x1800	470
<b>60-15/35</b>	+15/-35	60	260-460	133	400	87	>98	10	51	600x800x1800	550
<b>80-15/35</b>	+15/-35	80	260-460	178	400	115	>98	10	51	600x800x1800	600
<b>90-15/35</b>	+15/-35	90	260-460	200	400	130	>98	12	68	800x1000x2000	900
<b>135-15/35</b>	+15/-35	135	260-460	300	400	195	>98	12	68	800x1000x2000	1000
<b>160-15/35</b>	+15/-35	160	260-460	355	400	231	>98	12	68	800x1000x2000	1100
<b>200-15/35</b>	+15/-35	200	260-460	444	400	289	>98	12	55	1200x800x1800	1200
<b>250-15/35</b>	+15/-35	250	260-460	555	400	361	>98	12	52	1800x800x2000	1450
<b>320-15/35</b>	+15/-35	320	260-460	711	400	462	>98	12	52	1800x800x2000	1700
<b>400-15/35</b>	+15/-35	400	260-460	888	400	577	>98	12	63	2400x1000x2000	2300
<b>500-15/35</b>	+15/-35	500	260-460	1110	400	722	>98	15	63	2400x1000x2000	2600
<b>630-15/35</b>	+15/-35	630	260-460	1399	400	909	>98	15	64	3000x1000x2000	3400
<b>800-15/35</b>	+15/-35	800	260-460	1777	400	1155	>98	15	70	3600x1000x2100	3850

The values listed in the table are referred to 400V nominal voltage

### Orion plus +15%/-45%

<b>30-15/45</b>	+15/-45	30	220-460	79	400	43	>98	8	51	600x800x1800	470
<b>45-15/45</b>	+15/-45	45	220-460	118	400	65	>98	8	51	600x800x1800	550
<b>60-15/45</b>	+15/-45	60	220-460	157	400	87	>98	8	51	600x800x1800	600
<b>80-15/45</b>	+15/-45	80	220-460	210	400	115	>98	10	68	800x1000x2000	900
<b>105-15/45</b>	+15/-45	105	220-460	276	400	152	>98	10	68	800x1000x2000	1000
<b>135-15/45</b>	+15/-45	135	220-460	354	400	195	>98	10	68	800x1000x2000	1100
<b>160-15/45</b>	+15/-45	160	220-460	420	400	231	>98	10	55	1200x800x1800	1200
<b>200-15/45</b>	+15/-45	200	220-460	525	400	289	>98	10	52	1800x800x2000	1450
<b>250-15/45</b>	+15/-45	250	220-460	656	400	361	>98	10	52	1800x800x2000	1700
<b>320-15/45</b>	+15/-45	320	220-460	840	400	462	>98	10	63	2400x1000x2000	2300
<b>400-15/45</b>	+15/-45	400	220-460	1050	400	577	>98	12	63	2400x1000x2000	2700
<b>500-15/45</b>	+15/-45	500	220-460	1312	400	722	>98	12	64	3000x1000x2000	3400
<b>630-15/45</b>	+15/-45	630	220-460	1653	400	909	>98	12	70	3600x1000x2100	3850

The values listed in the table are referred to 400V nominal voltage

# CABINET SIZE

Type	Dimensions [mm]		
	W	D	H
11	210	400	200
12	300	460	300
13	300	560	300
21	300	500	900
22	410	530	1200
23	410	680	1200
31	600	600	1600
32	600	600	2000
33	800	600	2000
35	800	600	1800
36	1200	600	1600
37	1200	600	2000
40	600	800	1600
41	1000	800	1800
42	800	800	2000
43	1200	800	1600
44	2000	800	2000
46	1800	800	1600
47	1600	800	1800
48	2200	800	1800
49	2200	800	2000
50	2400	800	1800

Type	Dimensions [mm]		
	W	D	H
51	600	800	1800
52	1800	800	2000
53	1200	800	2000
54	600	800	2000
55	1200	800	1800
56	1800	800	1800
57	2400	800	2000
58	3000	800	2000
59	3600	800	2100
60	600	1000	1800
61	1200	1000	1800
62	1800	1000	2000
63	2400	1000	2000
64	3000	1000	2000
65	3600	1000	2000
66	4200	1000	2000
67	1200	1000	2000
68	800	1000	2000
70	3600	1000	2100
71	4200	1000	2100
72	4800	1000	2100
73	5400	1000	2100

Type	Dimensions [mm]		
	W	D	H
74	6000	1000	2100
75	6600	1000	2100
76	7200	1000	2100
80	3600	1400	2200
81	4200	1400	2200
82	4800	1400	2200
83	5400	1400	2200
84	6000	1400	2200
85	6600	1400	2200
86	7200	1400	2200
87	7800	1400	2200
86	7200	1400	2200
88	7000	1400	2200
89	8000	1400	2200
90	4200	2000	2400
91	5400	2000	2400
92	6000	2000	2400
93	6600	2000	2400
94	7200	2000	2400
95	8400	2000	2400