GEMINI / GEMINI PLUS

SINGLE-PHASE **4-40kVA**

Standard features

	Gemini	Gemini plus
Voltage regulation	IGBT controlled	
Selectable output voltage*	220-230-240V	
Output voltage accuracy	±0.5%	
Frequency	50Hz ±5% or 60Hz ±5%	
Admitted load variation	Up to 100%	
Cooling	Forced ventilation	
Ambient temperature	-25/+45°C	
Storage temperature	-25/+60°C	
Max relative humidity	<95% (non condensing)	
Admitted overload	150% 2sec.	
Colour	RAL 9005	
Protection degree	IP 21	
Instrumentation	Output digital voltmetre	
Installation	Indoor	
Overvoltage protection	Output class II surge arrestors	
Protection	• EMI/RFI filters • Automatic by-pass protection	• EMI/RFI filters • Input circuit breaker • Protection by-pass (automatic) • Maintenance by-pass (manual)

** 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

±15%	±20%	±25%	±30%
10	7	5	4
15	10	7	5
20	15	10	7
30	20	15	10
40	30	20	15

Accessories

- Interrupting devices
- Load protection against over/undervoltage
- Input isolating transformer
- Up to IP55 protection degree for indoor and outdoor installation

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 [kVA]	Input voltage range [V]	Max input current [A]	Output voltage [V]	Rated output current [A]	Eff. [%]	Correction time	Cabinet type	Cabinet dimensions WxDxH [mm]	Weight [kg]
Gemini ±20%/±15%											
ES7-20	±20	7	184-276	38	230	30	>98	one cycle	13	300x560x300	30
ES10-15	±15	10	195-265	51	230	43	>98	one cycle	13	300x560x300	30
ES10-20	±20	10	184-276	54	230	43	>98	one cycle	13	300x560x300	35
ES15-15	±15	15	195-265	77	230	65	>98	one cycle	13	300x560x300	35
ES15-20	±20	15	184-276	82	230	65	>98	one cycle	22	410x530x1200	50
ES20-15	±15	20	195-265	103	230	87	>98	one cycle	22	410x530x1200	50
ES20-20	±20	20	184-276	109	230	87	>98	one cycle	23	410x680x1200	110
ES30-15	±15	30	195-265	154	230	130	>98	one cycle	23	410x680x1200	110
ES30-20	±20	30	184-276	163	230	130	>98	one cycle	23	410x680x1200	125
ES40-15	±15	40	195-265	205	230	174	>98	one cycle	23	410x680x1200	125

The values listed in the table are referred to 230V nominal voltage

Type	Input variation [%]	Rated power [kVA]	Input voltage range [V]	Max input current [A]	Output voltage [V]	Rated output current [A]	Eff. [%]	Correction time	Cabinet type	Cabinet dimensions WxDxH [mm]	Weight [kg]
Gemini ±30%/±25%											
ES4-30	±30	4	161-300	25	230	17	>98	one cycle	13	300x560x300	30
ES5-25	±25	5	172-288	29	230	22	>98	one cycle	13	300x560x300	30
ES5-30	±30	5	161-300	31	230	22	>98	one cycle	13	300x560x300	35
ES7-25	±25	7	172-288	41	230	30	>98	one cycle	13	300x560x300	35
ES7-30	±30	7	161-300	43	230	30	>98	one cycle	22	410x530x1200	50
ES10-25	±25	10	172-288	58	230	43	>98	one cycle	22	410x530x1200	50
ES10-30	±30	10	161-300	62	230	43	>98	one cycle	23	410x680x1200	110
ES15-25	±25	15	172-288	87	230	65	>98	one cycle	23	410x680x1200	110
ES15-30	±30	15	161-300	93	230	65	>98	one cycle	23	410x680x1200	125
ES20-25	±25	20	172-288	116	230	87	>98	one cycle	23	410x680x1200	125

The values listed in the table are referred to 230V nominal voltage

Type	Input variation	Rated power	Input voltage range	Max input current	Output voltage	Rated output current	Eff.	Correction time	Cabinet type	Cabinet dimensions WxDxH	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]			[mm]	[kg]
Gemini plus ±20%/±15%											
ESP7-20	±20	7	184-276	38	230	30	>98	one cycle	13	300x560x300	32
ESP10-15	±15	10	195-265	51	230	43	>98	one cycle	13	300x560x300	32
ESP10-20	±20	10	184-276	54	230	43	>98	one cycle	13	300x560x300	40
ESP15-15	±15	15	195-265	77	230	65	>98	one cycle	13	300x560x300	40
ESP15-20	±20	15	184-276	82	230	65	>98	one cycle	22	410x530x1200	57
ESP20-15	±15	20	195-265	103	230	87	>98	one cycle	22	410x530x1200	57
ESP20-20	±20	20	184-276	109	230	87	>98	one cycle	23	410x680x1200	120
ESP30-15	±15	30	195-265	154	230	130	>98	one cycle	23	410x680x1200	120
ESP30-20	±20	30	184-276	163	230	130	>98	one cycle	23	410x680x1200	135
ESP40-15	±15	40	195-265	205	230	174	>98	one cycle	23	410x680x1200	135

The values listed in the table are referred to 230V nominal voltage

Type	Input variation	Rated power	Input voltage range	Max input current	Output voltage	Rated output current	Eff.	Correction time	Cabinet type	Cabinet dimensions WxDxH	Weight
Gemini plus ±30%/±25%											
ESP4-30	±30	4	161-300	25	230	17	>98	one cycle	13	300x560x300	32
ESP5-25	±25	5	172-288	29	230	22	>98	one cycle	13	300x560x300	32
ESP5-30	±30	5	161-300	31	230	22	>98	one cycle	13	300x560x300	40
ESP7-25	±25	7	172-288	41	230	30	>98	one cycle	13	300x560x300	40
ESP7-30	±30	7	161-300	43	230	30	>98	one cycle	22	410x530x1200	57
ESP10-25	±25	10	172-288	58	230	43	>98	one cycle	22	410x530x1200	57
ESP10-30	±30	10	161-300	62	230	43	>98	one cycle	23	410x680x1200	120
ESP15-25	±25	15	172-288	87	230	65	>98	one cycle	23	410x680x1200	120
ESP15-30	±30	15	161-300	93	230	65	>98	one cycle	23	410x680x1200	135
ESP20-25	±25	20	172-288	116	230	87	>98	one cycle	23	410x680x1200	135

The values listed in the table are referred to 230V 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