

Electro-mechanical digital voltage stabilisers



Vega

single-phase
0.3-25kVA



Standard features

Selectable output voltage (dip-switch)*	220-230-240V
Frequency	50/60Hz $\pm 5\%$
Admitted load variation	Up to 100%
Cooling	Natural ventilation
Ambient temperature	-25/+45°C
Storage temperature	-25/+60°C
Max relative humidity	95%
Admitted overload	200% 2 min.
Harmonic distortion	None introduced
Colour	RAL 7035
Protection degree	IP21
Instrumentation	Output digital voltmeter
Installation	Indoor

* The 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.

Accessories

Interrupting devices
Load protection against over/undervoltage
Manual by-pass line
Input isolating transformer
SPD surge arrester
EMI/RFI filters
IP54 protection degree for indoor and outdoor installation

Rating in relation to the input variation percentage

	$\pm 15\%$	$\pm 20\%$	$\pm 25\%$	$\pm 30\%$	+15%/-25%	+15%/-35%	+15%/-45%
1		0.7	0.5	0.3	0.7	0.5	0.3
2.5		2	1.5	1	2	1.5	1
5		4	3	2	4	3	2
7		5	4	3	5	4	3
10		7	5	4	7	5	4
15		10	7	5	10	7	5
20		15	10	7	15	10	7
25		20	15	10	20	15	10



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Vega stabilisers are available for different ranges of input voltage fluctuation.

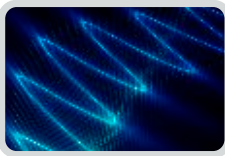
Standard models offer a **double input connection** so that with the same unit two different input variations ($\pm 15/\pm 20\%$ or $\pm 25/\pm 30\%$) can be dealt with.

An **automatic circuit breaker** is mounted on the regulation circuit **to protect** against overload and short circuit on the voltage regulator, whilst the auxiliary circuit is protected by **fuses**.

A **digital display** on the front panel shows the output voltage and the alarms (min/max output voltage, gearmotor lock, internal overheating, regulator overload)

The control logic is based on a digital **microprocessor**.

All Vega stabilisers are fitted with the **same control card**, thus simplifying maintenance operations and spare parts storage.



Wide range

- symmetrical: **$\pm 15\%$, $\pm 20\%$, $\pm 25\%$, $\pm 30\%$** (other on request)
 - asymmetrical: **$+15\%/-25\%$, $+15\%/-35\%$, $+15\%/-45\%$** (other on request)
- Output voltage accuracy: **$\pm 0.5\%$** .



Technology

Control logic based on digital **microprocessor** operating with a software specifically developed.



Long life

System voltage regulator with **rollers** (without brushes, which are subject to heavy wear & tear).



Protection

The voltage regulator is protected by a **circuit breaker** with magneto thermal release.
The auxiliary circuit is protected by **fuses**.



Instrumentation

A **digital display** providing with output voltage and alarm readings is fitted on the front panel.

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Type	Input voltage variation range	Rating	Input voltage range	Maximum input current	Output voltage $\pm 0.5\%$	Output current	Efficiency	Speed regulation	Cabinet	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]	Type	[kg]

Input voltage variation range $\pm 20\%/\pm 15\%$ (the values listed in the table are referred to 230V nominal voltage)

0.7-20	± 20	0.7	184-276	3.8		3		12		
1-15	± 15	1	195-265	5	230	4.3	>96	16	12	16
2-20	± 20	2	184-276	11		8.7		12		
2.5-15	± 15	2.5	195-265	13	230	11	>96	16	12	24
4-20	± 20	4	184-276	21		17		12		
5-15	± 15	5	195-265	26	230	22	>96	16	12	28
5-20	± 20	5	184-276	28	230	22	>98	12	13	41
7-15	± 15	7	195-265	35		30		16		
7-20	± 20	7	184-276	38		30		12		
10-15	± 15	10	195-265	51	230	43	>98	16	13	47
10-20	± 20	10	184-276	54		43		12		
15-15	± 15	15	195-265	76	230	65	>98	16	13	55
15-20	± 20	15	184-276	81		65		12		
20-15	± 15	20	195-265	102	230	87	>98	16	22	92
20-20	± 20	20	184-276	109		87		12		
25-15	± 15	25	195-265	128	230	109	>98	16	22	115

Input voltage variation range $\pm 30\%/\pm 25\%$ (the values listed in the table are referred to 230V nominal voltage)

0.3-30	± 30	0.3	161-300	1.9		1.3		8		
0.5-25	± 25	0.5	172-288	2.9	230	2.2	>96	10	12	16
1-30	± 30	1	161-300	6.2		4.3		8		
1.5-25	± 25	1.5	172-288	8.7	230	6.5	>96	10	12	24
2-30	± 30	2	161-300	12		8.7		8		
3-25	± 25	3	172-288	17	230	13	>96	10	12	28
3-30	± 30	3	161-300	19		13		8		
4-25	± 25	4	172-288	23	230	17	>98	10	13	41
4-30	± 30	4	161-300	25		17		8		
5-25	± 25	5	172-288	29	230	22	>98	10	13	47
5-30	± 30	5	161-300	31		22		8		
7-25	± 25	7	172-288	40	230	30	>98	10	13	56
7-30	± 30	7	161-300	44		30		8		
10-25	± 25	10	172-288	57	230	43	>98	10	22	92
10-30	± 30	10	161-300	62		43		8		
15-25	± 25	15	172-288	87	230	65	>98	10	22	115

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Type	Input voltage variation range	Rating	Input voltage range	Maximum input current	Output voltage $\pm 0.5\%$	Output current	Efficiency	Speed regulation	Cabinet	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]	Type	[kg]

Input voltage variation range **+15%/-25%** (the values listed in the table are referred to 230V nominal voltage)

0.7-15/25	+15/-25	0.7	172-265	4	230	3	>96	12	12	17
2-15/25	+15/-25	2	172-265	12	230	8.7	>96	12	12	25
4-15/25	+15/-25	4	172-265	23	230	17	>96	12	12	29
5-15/25	+15/-25	5	172-265	29	230	22	>98	12	13	42
7-15/25	+15/-25	7	172-265	40	230	30	>98	12	13	48
10-15/25	+15/-25	10	172-265	57	230	43	>98	12	13	56
15-15/25	+15/-25	15	172-265	87	230	65	>98	12	22	92
20-15/25	+15/-25	20	172-265	116	230	87	>98	12	22	115

Input voltage variation range **+15%/-35%** (the values listed in the table are referred to 230V nominal voltage)

0.5-15/35	+15/-35	0.5	150-265	3.4	230	2.2	>96	10	12	17
1.5-15/35	+15/-35	1.5	150-265	10	230	6.5	>96	10	12	25
3-15/35	+15/-35	3	150-265	20	230	13	>96	10	12	29
4-15/35	+15/-35	4	150-265	26	230	17	>98	10	13	42
5-15/35	+15/-35	5	150-265	34	230	22	>98	10	13	48
7-15/35	+15/-35	7	150-265	46	230	30	>98	10	13	56
10-15/35	+15/-35	10	150-265	66	230	43	>98	10	22	92
15-15/35	+15/-35	15	150-265	100	230	65	>98	10	22	115

Input voltage variation range **+15%/-45%** (the values listed in the table are referred to 230V nominal voltage)

0.3-15/45	+15/-45	0.3	126-265	2.4	230	1.3	>96	8	12	17
1-15/45	+15/-45	1	126-265	7.8	230	4.3	>96	8	12	25
2-15/45	+15/-45	2	126-265	16	230	8.7	>96	8	12	29
3-15/45	+15/-45	3	126-265	24	230	13	>98	8	13	42
4-15/45	+15/-45	4	126-265	31	230	17	>98	8	13	48
5-15/45	+15/-45	5	126-265	40	230	22	>98	8	13	56
7-15/45	+15/-45	7	126-265	55	230	30	>98	8	22	92
10-15/45	+15/-45	10	126-265	78	230	43	>98	8	22	115