WARRANTY 2 YEARS

Odyssey

three-phase
80-4000kVA

Standard Features

Voltage regulation	IGBT control (double conversion technology)
Voltage stabilisation	Independent phase control
Available nominal voltage*	220-230-240V (L-N) 380-400-415V (440-460-480V**) (L-L)
Output voltage accuracy	±0,5%
Frequency	50Hz ±5% or 60Hz ±5%
Correction time	<3 millisecs
Admitted load variation	Up to 100%
Admitted load imbalance	100%
Cooling	Forced Ventilation
Ambient temperature	-20/+40°C
Storage temperature	-25/+60°C
Max relative humidity	<95% (non condensing)
Admitted overload	150% for 1 minute (at nominal imput voltage)
Colour	RAL 9005
Protection degree	IP21
User interface	10" Touch panel, multilingual (Ethernet communication) Remotely available by dedicated «client»
Installation	Indoor
Communication system	MODBUS RTU (RS485)
Overvoltage protection	– Input class I surge arrestors – Output class II surge arrestors
Protection	– Automatic by-pass protection

* 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.
** 60Hz only.

Accessories

Interrupting devices
Short circuit output protection
Manual by-pass line
Total protection kit
Input isolating transformer
Integrated automatic power factor correction system
EMI/RFI filters
IP54 protection degree for indoor and outdoor installation

ORTEA

CE

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Rating in relation to the input variation percentage

±15%	±20%	±25%	±30%
160	120	95	80
200	160	120	95
250	200	160	120
320	250	200	160
400	320	250	200
500	400	320	250
630	500	400	320
800	630	500	400
1000	800	630	500
1250	1000	800	630
1600	1250	1000	800
2000	1600	1250	1000
2500	2000	1600	1250
3200	2500	2000	1600
4000	3200	2500	2000

The use of the **double conversion technology** guarantees the insulation from the disturbances and the distortions of the network and, together with the help provided by the electrolytic capacitors, makes it possible to build machines for high power loads.
Odyssey can operate with a **load variation range** for each phase **from 0 to 100%**, it is **not affected** by the **power factor** of the load and they can work with or without the neutral.
This voltage stabiliser can operate with different input and, consequently, output voltage (380V or 415V) from the nominal one (400V). Such setting can be performed at the factory or at the Customer's premises according to the instructions given in the handbook. It is also possible to select an output voltage different from the nominal one, but it is necessary to take into account the reduction of the power and the adjustment interval of the machine.
The user interface is created using a multilingual «touch panel» (10") with an Ethernet communication port which, via dedicated «client», allows remote control. Through the selection menu, it is possible to display electrical values and set the operating parameters of the stabiliser.
It is also possible to communicate with the electronic component via the **RS485 serial bus** using the **Modbus RTU** protocol.
The standard cabinet is an IP21 metal enclosure with RAL9005 finish for indoor installation.
Cooling is guaranteed by extracting fans.

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Type	Input variation range	Rated Power	Input Voltage range	Max input current	Output voltage ±0.5%	Rated output current	Efficiency	Correction time	Cabinet dimensions*	Weight*
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms]	[WxDxH]	[kg]
Input voltage variation range **±20%/±15%** (the values listed in the table are referred to 400V nominal voltage)										
120-20	±20	120	320-480	217	400	173	>98	<3	1200x800x2000	650
160-15	±15	160	340-460	272		231				
160-20	±20	160	320-480	289	400	231	>98	<3	1200x800x2000	700
200-15	±15	200	340-460	340		289				
200-20	±20	200	320-480	361	400	289	>98	<3	1200x800x2000	750
250-15	±15	250	340-460	425		361				
250-20	±20	250	320-480	451	400	361	>98	<3	1200x800x2000	850
320-15	±15	320	340-460	543		462				
320-20	±20	320	320-480	577	400	462	>98	<3	1200x1000x2200	1000
400-15	±15	400	340-460	679		577				
400-20	±20	400	320-480	722	400	577	>98	<3	1200x1000x2200	1200
500-15	±15	500	340-460	849		722				
500-20	±20	500	320-480	902	400	722	>98	<3	1200x1000x2200	1500
630-15	±15	630	340-460	1070		909				
630-20	±20	630	320-480	1137	400	909	>98	<3	2400x1000x2200	2000
800-15	±15	800	340-460	1359		1155				
800-20	±20	800	320-480	1443	400	1155	>98	<3	2400x1000x2200	2200
1000-15	±15	1000	340-460	1698		1443				
1000-20	±20	1000	320-480	1804	400	1443	>98	<3	2400x1000x2200	2800
1250-15	±15	1250	340-460	2123		1804				
1250-20	±20	1250	320-480	2255	400	1804	>98	<3	4200x1000x2200	3800
1600-15	±15	1600	340-460	2717		2309				
1600-20	±20	1600	320-480	2887	400	2309	>98	<3	4200x1000x2200	4000
2000-15	±15	2000	340-460	3396		2887				
2000-20	±20	2000	320-480	3609	400	2887	>98	<3	4200x1000x2200	5600
2500-15	±15	2500	340-460	4245		3609				
2500-20	±20	2500	320-480	4511	400	3609	>98	<3	4200x1000x2200	6900
3200-15	±15	3200	340-460	5434		4619				
3200-20	±20	3200	320-480	5774	400	4619	>98	<3	4200x1400x2200	10300
4000-15	±15	4000	340-460	6793		5774				

* Sizes and weights may change.

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Type	Input variation range	Rated Power	Input Voltage range	Max input current	Output voltage ±0.5%	Rated output current	Efficiency	Correction time	Cabinet dimensions*	Weight*
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms]	[WxDxH]	[kg]
Input voltage variation range **±30%/±25%** (the values listed in the table are referred to 400V nominal voltage)										
80-30	±30	80	280-520	165	400	115	>98	<3	1200x800x2000	650
95-25	±25	95	300-500	183		137				
95-30	±30	95	280-520	196	400	137	>98	<3	1200x800x2000	700
120-25	±25	120	300-500	231		173				
120-30	±30	120	280-520	247	400	173	>98	<3	1200x800x2000	750
160-25	±25	160	300-500	308		231				
160-30	±30	160	280-520	330	400	231	>98	<3	1200x800x2000	850
200-25	±25	200	300-500	385		289				
200-30	±30	200	280-520	412	400	289	>98	<3	1200x1000x2200	1000
250-25	±25	250	300-500	481		361				
250-30	±30	250	280-520	516	400	361	>98	<3	1200x1000x2200	1200
320-25	±25	320	300-500	616		462				
320-30	±30	320	280-520	660	400	462	>98	<3	1200x1000x2200	1500
400-25	±25	400	300-500	770		577				
400-30	±30	400	280-520	825	400	577	>98	<3	2400x1000x2200	2000
500-25	±25	500	300-500	962		722				
500-30	±30	500	280-520	1031	400	722	>98	<3	2400x1000x2200	2200
630-25	±25	630	300-500	1212		909				
630-30	±30	630	280-520	1299	400	909	>98	<3	2400x1000x2200	2800
800-25	±25	800	300-500	1540		1155				
800-30	±30	800	280-520	1650	400	1155	>98	<3	4200x1000x2200	3800
1000-25	±25	1000	300-500	1925		1443				
1000-30	±30	1000	280-520	2062	400	1443	>98	<3	4200x1000x2200	4000
1250-25	±25	1250	300-500	2406		1804				
1250-30	±30	1250	280-520	2578	400	1804	>98	<3	4200x1000x2200	5600
1600-25	±25	1600	300-500	3079		2309				
1600-30	±30	1600	280-520	3299	400	2309	>98	<3	4200x1000x2200	6900
2000-25	±25	2000	300-500	3849		2887				
2000-30	±30	2000	280-520	4124	400	2887	>98	<3	4200x1000x2200	10300
2500-25	±25	2500	300-500	4811		3609				

* Sizes and weights may change.