

POWER-BOOST



Mini Tower



Maxi Tower

THREE-PHASE [TT]

PREMIUM

Power	9 kVA	15 kVA	21 kVA	30 kVA	45 kVA	60 kVA	80 kVA	100 kVA	150 kVA
Electronic Architecture / Transformers	Half-Bridge Inverter, standard autotransformer or optional isolation transformer in input				Full-Bridge Inverter, Isolation transformer in output		Full-Bridge Inverter, autotransformer in input and Isolation transformer in output		
Full Load Efficiency	> 93%								
VOLTAGE									
Input Range [PH-PH]	350 – 440 Vac								
Output Ranges and Switch Mode [PH-PH]	LOW 3-260Vac , HIGH 6-520Vac Manual and Automatic Switch LOW/HIGH through control panel								
Regulation System [PH-PH]	Local [Command Buttons] and Remote [Interfaces]: 3-260Vac and 6-520Vac								
Sensing	Yes - (Maximum Voltage Drop 5%)								
Total Harmonic Distortion (THD)	< 1%								
Static Line Regulation	< 1%								
Static Load Regulation	< 1%								
Dynamic stability of the output voltage upon load variation	< 0.5%								
Time Response to load or line variation	< 1ms								
CURRENT									
Max Current Setup	Yes								
Regulation Function	Yes								
RMS at 150Vac and 300Vac	3 x 20 A / 3 x 10 A	3 x 33,3 A / 3 x 16,6 A	3 x 46,6 A / 3 x 23,3 A	3 x 66,6 A / 3 x 33,3 A	3 x 100 A / 3 x 50 A	3 x 133,3 A / 3 x 66,6 A	3 x 177,7 A / 3 x 88,8 A	3 x 222,2 A / 3 x 111,1 A	3 x 333,3 A / 166,6 A
Inrush at 150Vac and 300Vac [6s]	3 x 30 A / 3 x 15 A	3 x 50 A / 3 x 25 A	3 x 70 A / 3 x 35 A	3 x 100A / 3 x 50 A	3 x 150 A / 3 x 75 A	3 x 200 A / 3 x 100 A	3 x 266,6 A / 3 x 133,3 A	3 x 333,3 A / 3 x 166,6 A	3 x 500 A / 3 x 250 A
FREQUENCY									
Input Range	47Hz - 63Hz								
Output (switchable)	50Hz and 60 Hz [± 0,01%]								
Additional Output Value (switchable)	400Hz [± 0,01%]			Optional					
Regulation Function (adjustable)	from 40Hz to 80Hz [± 1% with 4 x 40 LCD control panel]								

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PHASES									
Offset Modulation [0° 1-phase, 120° 3-phase, 180° 2-phase]	Option1 0° - Three-Phases synchronization to attain a single-phase output [TS working mode] 120° - European Three-Phase working mode [TT working mode] 180° - American Two-Phase working mode								
OTHERS									
Crest factor	04:01								
Noise level	60dBA								
Power Protections	OVP, UVP, OCP, OTP								
CONTROL PANEL									
LCD Display	4 x 40 characters or optional 7" LCD Touch Screen								
Voltage and current LCD Display accuracy	± 2 DIGIT								
Voltage and current LCD Display resolution	± 0.5								
Cos φ value visualization	Yes								
Frequency value visualization	Yes								
7" LCD Touch Screen	Optional								
COMMUNICATION INTERFACES									
Analog	I/O 12 poles equipped with 0-10Vdc [accuracy response ± 1%]								
RS232	Yes								
Ethernet	Yes								
Communication Protocols	SCPI (over RS-232 and Ethernet) / LabView Drivers (optional)								
Reference Voltage of remote controls	Common ground with ground line								
MECHANICAL (auto transformer / isolation transformer)									
Plate Dimensions (W x H x D)	-	-	-	-	-	-	-	-	-
Plate Weight	-	-	-	-	-	-	-	-	-
Rack19" Dimensions	-	-	-	-	-	-	-	-	-
Rack 19" Weight	-	-	-	-	-	-	-	-	-
Tower Dimensions (W x H x D)	550 x 1100 x 800 mm	550 x 1100 x 800 mm	550 x 1100 x 800 mm	550 x 1100 x 800 mm	800 x 2000 x 800 mm	800 x 2000 x 800 mm	1000 x 2000 x 800 mm	1000 x 2000 x 800 mm	1200 x 2200 x 1000 mm
Tower Weight	150 / 175 kg	170 / 185 kg	180 / 210 kg	240 / 280 kg	550 kg	650 kg	800 kg	1000 kg	1250 kg
ENVIRONMENTAL									
Cooling	Air Forced Circulation								
Operating Temperature	from 0° to +40°C								
Storage Temperature	from -40° to +85°C								
REGULATORY									
Safety and EMC	EN 62040-1, EN 62040-2, EN62040-3, EN 62368-1								