



POWER-BOOST - PREMIUM

Master
Custom
Balance

THREE-PHASE [TT] - PREMIUM - MAXI TOWER

QMS - Quality Management System

UNI EN ISO 9001:2015

Certificate n. 50 100 5422



Part Number	BP-45-TT-FB-T	BP-60-TT-FB-T	BP-80-TT-FB-T	BP-100-TT-FB-T	BP-150-TT-FB-T
Power	45 kVA	60 kVA	80 kVA	100 kVA	150 kVA
Electronic Architecture / Transformers	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	350 – 440 Vac				
Output Ranges and Switch Mode	LOW 3-260Vac , HIGH 6-520Vac [PH-PH] Manual and Automatic Switch LOW/HIGH through control panel				
Regulation System	Local [Command Buttons] and Remote [Interfaces]: 3-260Vac and 6-520Vac [PH-PH]				
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	< 1 ms				
CURRENT					
Max Current Setup and Current Regulation	3 working modes (M1, M2, M3) M1: set of I _{max} within the current range and power-off of the unit when the load exceeds the set current M2: set of I _{max} within the current range and proportional decrease of the voltage when the load exceeds the set current M3: current generator mode with voltage automatically set at the highest value within the selected voltage range (not adjustable) and the current freely adjustable within certain load impedance criterias				
RMS at 150Vac and 300Vac	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 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 - 63 Hz				
Output (switchable)	50Hz and 60 Hz [± 0,01%]				
Additional Output Value (switchable)	Upon custom request				
Regulation Function (adjustable)	from 40Hz to 80Hz [± 1%]				
PHASES					
Offset Modulation	Upon Custom Request [0° 1-phase output, 120° 3-phase output, 180° dual-phase output]				
OTHERS					
Crest factor	04:01				
Noise level	60dBA				
Power Protections	OVP, UVP, OCP, OTP				
CONTROL PANEL					
LCD Display	[4 x 40 characters]				

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 Panel Control	-				
COMMUNICATION INTERFACES					
Analog	I/O 12 poles equipped with 0-10Vdc [accuracy response ± 1%] (limited functions)				
RS232	Yes (limited functions)				
Ethernet	Yes (limited functions)				
Communication Protocols	SCPI and LabView Drivers				
Reference Voltage of remote controls	Common ground with ground line				
MECHANICAL					
Plate Dimensions (W x H x D)	-	-	-	-	-
Plate Weight	-	-	-	-	-
Rack19" Dimensions	-	-	-	-	-
Rack 19" Weight	-	-	-	-	-
Tower Dimensions (W x H x D)	800 x 2000 x 800 mm	800 x 2000 x 800 mm	1000 x 2000 x 800 mm	1000 x 2000 x 800mm	1000 x 2000 x 1000mm
Tower Weight	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 & EMC	EN 62040-1, EN 62040-2, EN62040-3, EN 62368-1				