



POWER-BOOST - DELUXE

Master
Custom
Balance

THREE-PHASE [TT] - DELUXE - MAXI TOWER

QMS - Quality Management System

UNI EN ISO 9001:2015

Certificate n. 50 100 5422



Part Number	BD-45-TT-FB-T	BD-60-TT-FB-T	BD-80-TT-FB-T	BD-100-TT-FB-T	BD-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	-				
Regulation Function	-				
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 [$\pm 0,01\%$]				
Additional Output Value (switchable)	Upon custom request				
Regulation Function (adjustable)	from 40Hz to 80Hz [$\pm 1\%$]				
PHASES					
Offset Modulation	-				
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				