



POWER-BOOST - DELUXE

Master
Custom
Balance

THREE-PHASE [TT] - DELUXE - MINI TOWER - AUTO TRANSFORMER

QMS - Quality Management System

UNI EN ISO 9001:2015

Certificate n. 50 100 5422



Part Number	BD-09-TT-T-AU	BD-15-TT-T-AU	BD-21-TT-T-AU	BD-30-TT-T-AU
Power	9 kVA	15 kVA	21 kVA	30 kVA
Electronic Architecture / Transformers	Half-Bridge Inverter - Auto Transformer			
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 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
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
FREQUENCY				
Input Range	47Hz - 63 Hz			
Output (switchable)	50Hz and 60 Hz [\pm 0,01%]			
Additional Output Value (switchable)	400Hz [\pm 0,01%]	400Hz [\pm 0,01%]	Upon custom request	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	\pm 2 DIGIT			
Voltage and current LCD Display resolution	\pm 0.5			
Cos ϕ value visualization	-			
Frequency value visualization	-			
7" LCD Touch Panel Control	-			
COMMUNICATION INTERFACES				
Analog	I/O 12 poles equipped with 0-10Vdc [accuracy response \pm 1%] (limited number of functions)			
RS232	Yes (limited number of functions)			
Ethernet	Yes (limited number of functions)			
Communication Protocols	SCPI and LabView Drivers			

Reference Voltage of remote controls	Common ground with ground line			
MECHANICAL [autotransformer / 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
Tower Weight	150 kg	170 kg	180 kg	240 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			