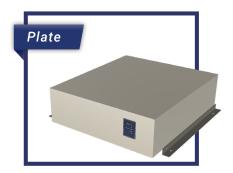




POWER-BOOST



Our Technical Solutions







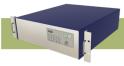






BASIC

- LED indicator panel with just remote control option
 Standard and available only on Plates in SS models



Potentiometer, LED Indicators, LCD Display [2x16 characters] - Standard on Rack 19" in this package



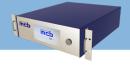




- Controlling Command Buttons and LCD Display [4 x 40 characters]
- Standard on Tower and Maxi Tower in all the packages

PREMIUM





Power-Boost

3in1 AC/AC POWER SOURCE

Frequency Converter, Voltage Regulator and Voltage Stabilizer

Power-Boost Series is a value for money cost-effective solution to meet the needs of Frequency conversion, Voltage regulation and stabilization, especially for high power applications where also the three-phase power is available.

Power-Boost permits a high dimension power rate that can supply any load types (resistive, inductive and capacitive) with a perfect sinusoidal output waveform. Power-Boost covers a broad array of applications such as household appliances, automotive test benches, electric motors, automated production lines, electronics, medical equipment, lighting, maritime, aviation, power grid, industry and many more.

AT A GLANCE:

- Equipped with half bridge inverter with autotransformer for powers up to 45kVA [optional isolation transformer]
- Equipped with full bridge inverter with autotransformer in input and isolation transformer in output for powers equal and above 45kVA
- · Phases working mode:
 - o SS [single-phase input and output]
 - o TS [three-phase input single-phase output]
 - o TT [three-phase input and output]
- · Standard Available Power:
 - o SS [1.5kVA 3.5kVA 5kVA 7.5 kVA]
 - o TS [10kVA 17.5kVA 25 kVA]
 - o TT [9kVA 15kVA 21kVA 30kVA 45kVA 60kVA 80kVA 100kVA 150kVA]
- 3 Upgrade Packages available to fulfill all the possible configurations [Basic, Deluxe, Premium]
- · Mechanical:
 - o Plate available only for SS devices in Basic Package. Housing in chrome colour.
 - o Rack 19" available in SS and TS families. It comes with removable handles so that it can be used as Desk Box as well. Housing powder coated in MCB blue navy colour.
 - o Towers available in TS and TT families up to 30kVA Power
 - o Maxi-Tower available in TT families for Powers equal to and above 45kVA
- · Control Panels:
 - o LED indicators and just remote control on Plates [only on SS Basic]
 - o LCD Display 2 x 16 along with potentiometer on Rack 19" on SS and TS Basic Package
 - o LCD Display LCD 4 x 40 along with command buttons on all the Deluxe and Premium packages as well as all the Towers and Maxi Towers
 - o LCD 7" touchscreen along with encoder [optional only on the Premium package]
- Communication Interfaces [Remote Control]
 - o Standard 0-10Vdc and one among RS232 and Ethernet Interface
 - o SCPI communication protocol and LabView Drivers

STANDARD FEATURES

- · Voltage Regulation [2-150 Vac and 4-300 Vac]
- Sensing Function
- Frequency regulation [40-80Hz]
- · Current regulation
- Setup of the max Current value
- · Available 50Hz, 60Hz and 400Hz quartz output frequencies
- Cos

 and Frequency values visualization
- Phases Offset Modulation in TT models [0°, 120°, 180°]
 - o 0° Three-Phases synchronization to attain a Single-Phase output [TS working mode]
 - o 120° European Three-Phase working mode
 - o 180° American Two-Phase working mode

POSSIBLE CUSTOMISATIONS

- Custom Powers up to 240kVA parallelizing and synchronizing more units
- Different Voltage input range
- Higher Voltage output range [up to 1500Vac]
- Fixed Voltage output value
- Different Frequency input range
- Broader Frequency output range [up to 500Hz]
- Adaption to Current Generator
- Adaption to ST working mode [input Single-Phase output Three-Phase]

Some of the deployed Special Applications



Avionics



Marine & Offshore

Power (kVA)



Automotive



Household Appliances



Certification and Regulatory Labs



Electric Motor Testing

Part Number Generation

> P - Plate R - Rack 19" T - Tower

TS - Three-Phase Single-Phase
TT - Three-Phase

Power-Trust
Power-Trust is like Power-Boost without any transformer
and available as standard just in TS version
(Three to Single Phase)

	Basic	Deluxe	Premium	Basic	Deluxe	Premium
Single-Phase [SS] - Power [1.5kVA-3kVA- 5kVA - 7.5kVA]	✓	✓	✓	-	-	-
Three-Phase Single-Phase [TS] - Power [10kVA-17.5 kVA - 25kVA]	√	✓	✓	✓	√	✓
Three-Phase [TT] - Power [9kVA-15kVA-21kVA-30kVA-60kVA -80kVA-100kVA-150kVA]	✓	✓	✓	-	-	-
Autotransformer	✓	✓	✓	-	-	-
Isolation Transformer	Optional	Optional	Optional	-	-	-
Output Voltage Regulation Range - Local	125Vac ± 25Vac 250Vac ± 50Vac	2 - 150Vac 4 - 300Vac		200-300Vac	2 - 300 Vac	2 - 300 Vac
Output Voltage Regulation Range - Remote	2 - 150Vac 4 - 300Vac			2 - 300 Vac	2 - 300 Vac	2 - 300 Vac
Voltage Switch between LOW Voltage Range 150Vac to HIGH Voltage Range 300Vac	Manual	Manual and Automatic	Manual and Automatic	-	-	_
Sensing Function	✓	✓	✓	-	-	-
Max Current Setup	-	√	✓	-	✓	✓
Current Regulation	-	-	✓	-	-	✓
Third Frequency Value beside 50Hz and 60Hz	-	√[400Hz]	√ [400Hz]	-	√ [400Hz]	√ [400Hz]
Frequency Regulation	-	-	√ [40Hz - 80Hz]	-	-	√ [40Hz - 80Hz]
Phases Offset Modulation on 3-phase models [TT]	-	-	√ [0°, 120°, 180°]	-	-	-
Communication Interfaces [remote control]	√ [0-10Vdc plus one among RS232 and Ethernet]			√ [0-10Vdc plus one among RS232 and Ethernet]		
LED Indicator Panel [only remote control]	√ [only on Plates SS models]	-	-	-	-	-
LCD Display [2 x 16] + Potentiometer	✓	-	-	✓	-	-
LCD Display [4 x 40] + Command Buttons	✓ [Only on Towers]	✓	✓	✓ [Only on Towers]	✓	✓
LCD Touch Control Panel [7"] + Encoder	-	-	Optional	-	-	Optional



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