electronics mcb

CONFINDUSTRIA COMO

TÜV SÜD
Sistema di qualità certificato
UNI EN ISO 9001:2015
Certificato n.50 100 5422 Rev. 6

POWER-TRUST

Our Technical Solutions

Rack 19"

Mini Tower

Rack 19'' 6U
(only on TS models)

BASIC

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

DELUXE

Controlling Command Buttons and LCD Display [4 x 40 characters]
- Standard on Rack 19" in this package
- Standard on Mini Tower and Maxi Tower in all the packages

PREMIUM

7" LCD Touch Screen Control Panel
- Optional on Rack, Tower and Maxi Tower only in this package
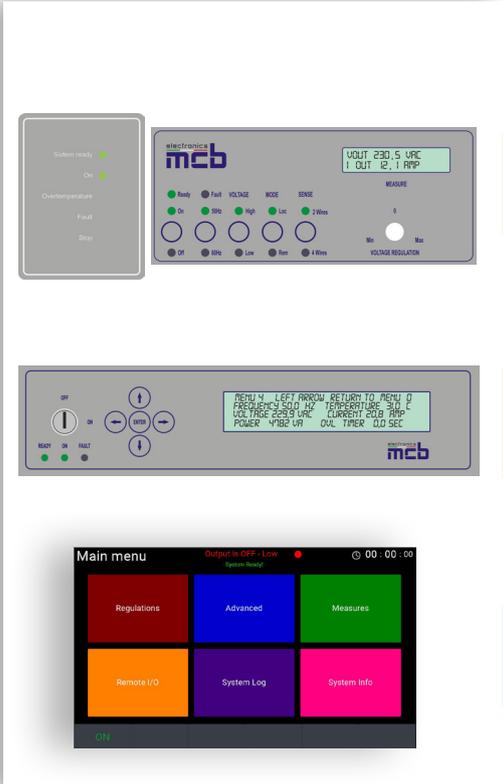
3in1 AC/AC POWER SOURCE
Frequency Converter, Voltage Regulator and Voltage Stabilizer

Power-Trust Series is not equipped with any transformer and is available as standard only in TS version [three-phase input single-phase output] with a Voltage regulation function limited between 2Vac and 300Vac. Power-Trust upsides over Power-Boost:

- Lighter
- Higher full load efficiency (>96% vs >93%)
- Better heat dissipation

Power-Trust, as much as Power-Boost can cover a wide arrange of applications such as household appliances, automotive test benches, electric motors, automation, electronics, medical equipment, lighting, maritime, aviation, power grid, industry and many more.

AT A GLANCE:

• Not equipped with transformer
Phases working mode:
    o SS [1-phase input and output]
    o TS [3-phase input 1-phase output]
• Standard Available Power:
    o SS [1.5kVA - 3kVA – 5kVA - 7.5 kVA]
    o TS [10kVA - 17.5kVA – 25 kVA]
• 3 Upgrade Packages available [Basic, Deluxe, Premium]
• Mechanical:
    o Rack 19" 3U available on SS family. 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 Rack 19" 6U only on TS family
    o Mini Tower
• Control Panels:
    o LCD Display 2 x 16 along with potentiometer on Rack 19" on SS Model Basic Package
    o LCD Display 4 x 40 along with command buttons on all the SS models in Deluxe and Premium packages as well as on all the Mini Towers in any package
    o 2 x LED strings along with command buttons on the Rack 19" 6U (only on TS models)
    o LCD 7" touch screen [optional on Premium packages]
• Communication Interfaces (Remote Control):
    o Physical Interfaces: RS-232, Ethernet, 12 poles I/O
    o Communication protocols: SCPI (over RS-232 and Ethernet), 0-10Vdc (over analog I/O 12 poles), ASCII with optional SCPI adapter (only on Rack 19" TS models)
    o LabView Drivers

STANDARD FEATURES

• Voltage Regulation [max output = Vinput value - 4Vac]
• Frequency regulation [40-80Hz]
• Setup of the max Current value
• Cos φ and Frequency values visualization

POSSIBLE CUSTOMISATIONS

• Different Frequency input range
• Different Frequency output range [up to 400Hz]
• Device adaption to Current generator up to the nominal Current
• Device adaption to ST working mode [1-phase input 3-phase output]

Some of the deployed Special Applications

Avionics

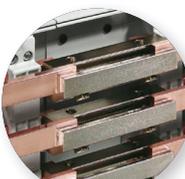**Marine & Offshore**

Automotive

Household Appliances

Certification and Regulatory Labs

Electric Motor Testing

Drones

Industry

Military

Burners

	Power-Boost			Power-Trust: Unlike the Power-Boost, the Power-Trust is not equipped with any transformer and it's available just in SS and TS versions (1-phase/1-phase and 1-phase/3-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]	✓	✓	✓	Optional	Optional	Optional
Autotransformer	✓	✓	✓	-	-	-
Isolation Transformer	Optional up to 30kVA, Standard from 45kVA to 150kVA			-	-	-
Output Voltage Regulation Range - Local [PH-N]	125Vac ± 25Vac 250Vac ± 50Vac	2 - 150Vac 4 - 300Vac		SS [from 2 Vac to Vinput - 4Vac] TS [2-300Vac]		
Output Voltage Regulation Range - Remote [PH-N]	2 - 150Vac 4 - 300Vac					
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]	-	√ [40Hz - 80Hz]	√ [40Hz - 80Hz]
Phases Offset Modulation on 3-phase models [TT]	-	-	✓ [0°, 120°, 180°]	-	-	Optional
Remote Control - Communication Interfaces	RS232 and Ethernet with SCPI protocol and analog I/O 12 poles with 0-10Vdc. Except for Rack 19" TS : RS232 (optional Ethernet adapter) with ASCII code (optional SCPI adapter) and analog I/O 10 poles with 0-10Vdc			RS232 and Ethernet with SCPI protocol and analog I/O 12 poles with 0-10Vdc. Except for Rack 19" TS : RS232 (optional Ethernet adapter) with ASCII code (optional SCPI adapter) and analog I/O 10 poles with 0-10Vdc		
LED Indicators Panel [only remote control]	✓ [only on Plates SS models]	-	-	✓ [only on Plates SS models]	-	-
2 x LED strings + Command Buttons	✓ [only on Rack 19" TS models]			✓ [only on Rack 19" TS models]		
LCD Display [2 x 16] + Potentiometer	[Only on SS models]	-	-	[only on SS models]	-	-
LCD Display [4 x 40] + Command Buttons	✓ [Only on Towers]	✓	✓	✓ [Only on Towers]	✓	✓
LCD Touch Control Panel [7"]	-	-	Optional	-	-	Optional

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