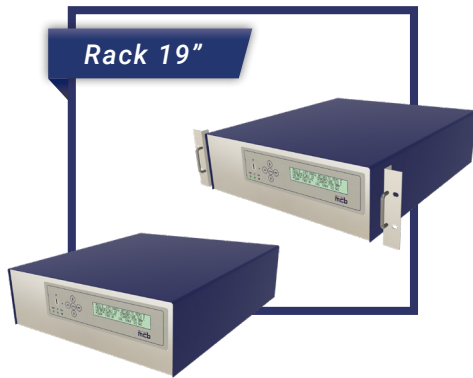


POWER-TRUST

Our Technical Solutions

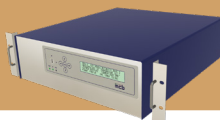


BASIC



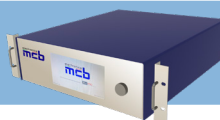
Potentiometer, LED Indicators, LCD Display [2x16 characters]
- Standard on Rack 19" in this package

DELUXE

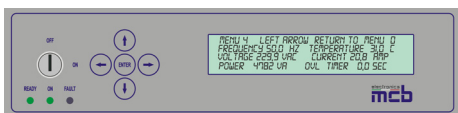
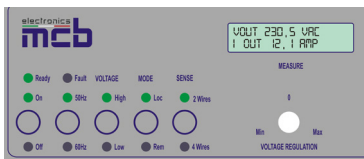


Controlling Command Buttons and LCD Display [4 x 40 characters]
- Standard on Rack 19" in this package
- Standard on Tower and Maxi Tower in all the packages

PREMIUM



Encoder and 7" LCD Touch Screen Control Panel
- Optional on Rack, Tower and Maxi Tower only in this package



Power-Trust

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 TS [three-phase input single-phase output]
- Standard Available Power:
 - o TS [10kVA - 17.5kVA – 25 kVA]
- 3 Upgrade Packages available [Basic, Deluxe, Premium]
- Mechanical:
 - o Rack 19" which comes with removable handles so that it can be used as Desk Box as well. Housing powder coated in MCB blue navy colour
 - o Tower
- Control Panels:
 - o LCD Display 2 x 16 along with potentiometer on Rack 19" in Basic package
 - o LCD Display LCD 4 x 40 along with command buttons on Rack 19" in Deluxe and Premium packages and Towers in all the packages
 - o LCD 7" touchscreen along with encoder [optional only on 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 [2-300Vac]
- Sensing Function
- Frequency regulation [40-80Hz]
- Current regulation
- Setup of the max Current value
- Available 50Hz, 60Hz and 400Hz quartz output frequencies
- Cos ϕ and Frequency values visualization

POSSIBLE CUSTOMISATIONS

- SS and TT configurations with maximum Voltage Output equal to [Grid Voltage value minus 4V]
- Fixed Voltage output value
- Different Frequency input range
- Different Frequency output range [up to 500Hz]
- Device adaption to Current generator up to the nominal Current
- Device adaption to ST working mode [input Single-phase output Three-Phase]

Some of the deployed Special Applications



Avionics



Marine & Offshore



Automotive



Household Appliances



Certification and Regulatory Labs



Electric Motors Testing

Part Number Generation

TB - Power-Trust Basic
TD - Power-Trust Deluxe
TP - Power-Trust Premium

TS - Three-Phase
Single-Phase

TB - 10 - TS - R

Power (kVA)

R - Rack 19"
T - Tower

Power-Boost

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-150 kVA]	✓	✓	✓	-	-	-
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



M.C.B. Srl
VAT IT02278880139

📍 Via Monte Rosa, 5 - 22079 Villa Guardia (CO) - Italy

☎ +39 031 390496

✉ info@mcbelectronics.it