

## POWER-BOOST SS [1-phase]

AC/AC Power Source

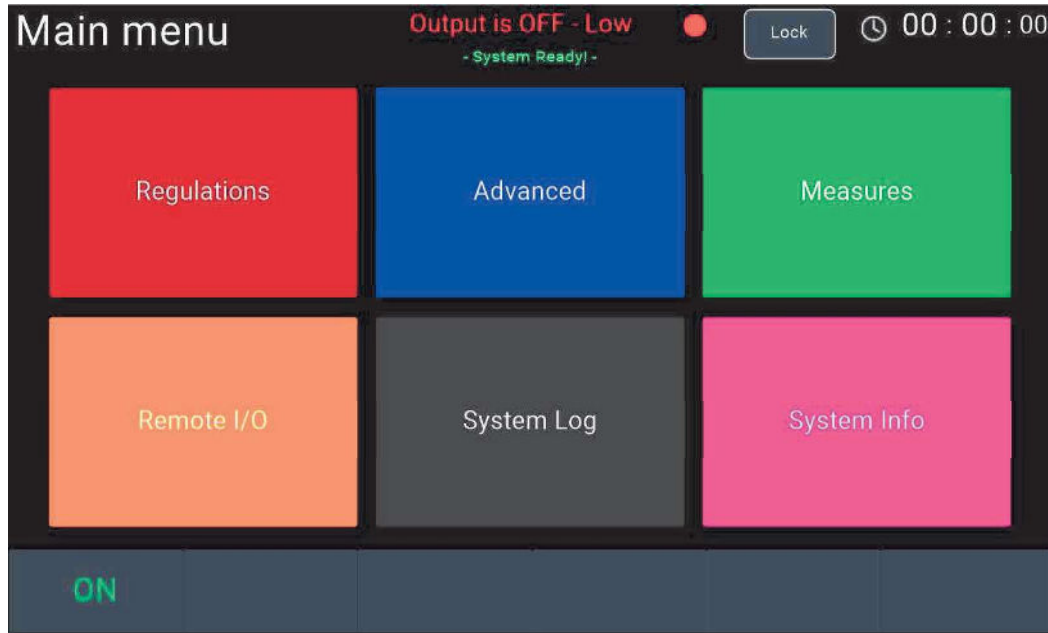


## OVERVIEW POWER-BOOST \*

|  |  |
|--|--|
| AC Input                                 | 1-phase  |
| AC Output                                | 1-phase  |
| Power Range                              | 1.5kVA - 3kVA - 5kVA - 7.5kVA  |
| Auto transformer                         | Standard   |
| Isolation Transformer                    | Optional   |
| Mechanical                               | autotransformer 1 x Rack 19" 3U D500<br>isolation transformer 2 x Rack 19" 3U D500 |
| Voltage Ranges in Output                 | [LOW] 2-150Vac / [HIGH] 4-300Vac   |
| Current Regulations<br>[3 working modes] | A - power-off at reaching of set $I_{max}$   |
|  | B - voltage reduction at reaching of set $I_{max}$                                 |
|  | C - set of the $I_{out}$ with automatic set of the $V_{max}$                       |
| Frequency                                | Regulation 40 - 80Hz [ $\pm 0.01\%$ ]  |
| Additional Frequency                     | 400Hz [ $\pm 0.01\%$ ]   |
| Sensing Function                         | Standard   |
| Local Control                            | LCD Touch Screen 7"  |
| Remote Controls                          | RS232  |
|  | Ethernet   |
|  | MCB analogue interface I/O 12 poles<br>[including 0-10 Vdc]                        |
| Communication Protocols / Drivers        | SCPI [RS232 and Ethernet] / LabVIEW Drivers  |

\* Power-Boost comes in three different packages: BASIC, DELUXE and PREMIUM. The specifications outlined above refer to the top package PREMIUM equipped with 7" touchscreen display.

## CONTROL PANEL 7" TOUCHSCREEN



### REGULATIONS:

1. Double Range Voltage Regulation (2 - 150Vrms & 4 - 300Vrms) – steps 0.5Vrms
2. Double Range Current Regulation (2 - 150Vrms has got twice current as much the range 4 – 300Vrms)
3. Frequency Regulation within the range 40-80Hz (steps 0.1Hz) plus 400Hz

### ADVANCED:

1. Display regulations (brightness, colours, touch function calibration etc ...)
2. Time and Language Setup
3. Activation code

### MEASURES [accuracy $\pm 1\%$ ]:

1. Voltage, Current and Frequency on the output
2. Analysis of the output power (reactive, apparent and real power)
3. Measurement of Voltage and Current for Maximum, Minimum, Average, RMS, Peak-to-Peak and Crest values

### REMOTE I/O:

1. Enabling the local (touchscreen panel) or remote function (only one mode at the time)
2. Remote controls: Ethernet (SCPI), RS232 (SCPI) or Analog (standard MCB I/O 12 poles with 0-10Vdc)

### EXTRA FEATURES

1. Programmable ON/OFF time
2. Programmable Voltage ramps within a settable time frame

## OVERVIEW TECHNICAL OFFERING

|                         | AC / AC Power Source   | Current Generators [AC / AC & AC / DC] |  | AC / DC Power Source |
|-------------------------|--|--|--|----------------------|
| Product Name            | <b>Power-Boost</b>   | <b>Power-Flow AC</b>                   | <b>Power-Flow DC</b>                                 | <b>Power-Spin</b>    |
| Power Range             | 1.5kVA - 150kVA  | 1kVA - 150kVA                          | 1kW - 90kW   | 1kW - 200kW          |
| AC Input                | 1-phase, 2-phase, 3-phase  |  |  |                      |
| AC Output               | 1-phase, 2-phase, 3-phase  | 1-phase<br>3-phase                     | -  | -                    |
| Output Voltage Range    | 2-150Vac & 4-300Vac [PH-N]   | down to 1Vac                           | down to 1Vdc   | 1 - 400Vdc           |
| Output Frequency Range  | from 40 to 80Hz and 400Hz  | custom value                           | -  | -                    |
| Output Current Range    | from 1 x 5A [1.5kVA @300Vac]<br>to 3 x 333,3A [150kVA @150Vac]                                   | up to 40kA                             |  | 1 - 500 A            |
| Current Regulation      | Full Regulation within the output current range  |  |  |                      |
| Local Control Interface | A) LCD display 4 x 40 characters and command buttons<br>B) LCD 7" touchscreen                    |  | A) LCD display 4 x 40 characters and command buttons |                      |
| Remote Controls         | A) Analog I/O 12 poles with 0-10Vdc control<br>B) Ethernet and RS232 equipped with SCPI protocol |  | B) Ethernet and RS232 equipped with SCPI protocol    |                      |
| Drivers                 | LabView Drivers  |  | Optional LabView Drivers                             |                      |