

MUST900

Modular Threephase UPS

Modular system **MUST 900**
with
power modules of 30kVA/27kW

- POWERFUL -
- RELIABLE -
- EFFICIENT -
- FLEXIBLE -

SYSTEM

➤ Configuration

Two cabinet size:

→ 1 system 1600mm high with **6 power modules of 30kVA = 180kVA**

→ 1 system 2000mm high with **10 power modules of 30kVA = 300kVA**

Available also (on request) **600kVA** system with centralized static and manual bypass

→ 1 system 2000mm high with **20 power modules of 30kVA**

PARALLEL KIT for 3 systems of 10 module each

→ **900kVA** total power!!!

POWER MODULE 30kVA

➤ Technology

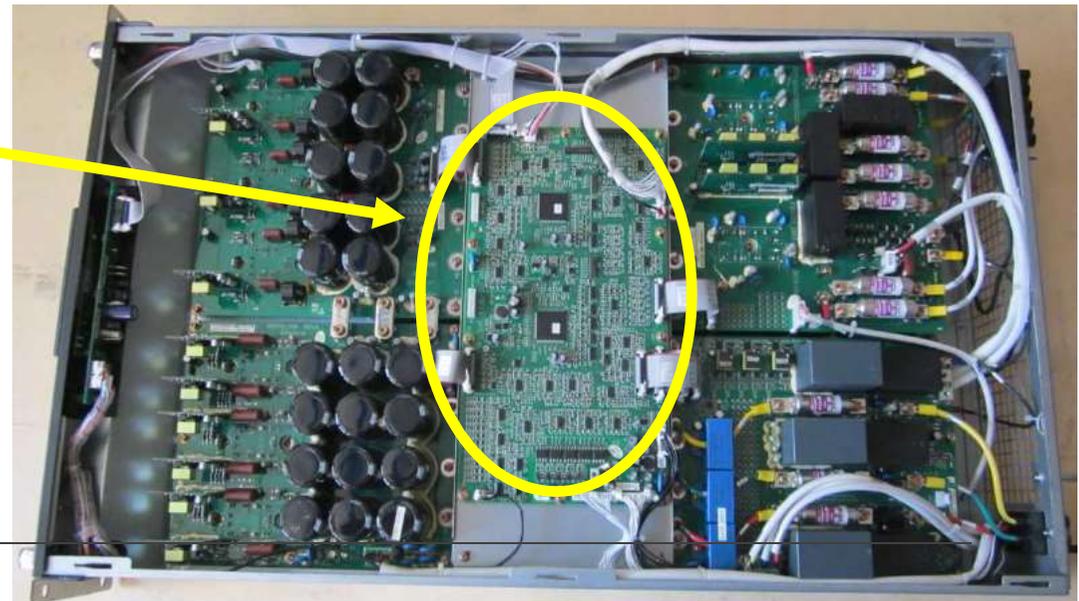
RECTIFIER IGBT TECHNOLOGY WITH PFC (power factor control)

3 LEVEL INVERTER

POWERFUL BATTERY CHARGER → 20% OF RATED POWER OF THE MODULE

High performance DSP control in each power module

Well done electronic PCB layout for very easy repairing and maintenance



POWER MODULE 30kVA

➤ Performance

Input Specifications

Rated Voltage: 380/400/415V 3ph+N

Input Voltage Range: 304V-478V

Frequency Range: 40÷70Hz

THDI%: <3%

Output Specifications

Rated Voltage: 380/400/415V 3ph+N

Voltage Precision: 1%(balance load); 1,5%(unbalance load)

Frequency Range: 50/60Hz

THDV%: <1,5%(linear load); <5%(nonlinear load)

Efficiency Online Mode: 95%

Noise level: < 65dB



Battery Specifications

Battery Voltage: 480Vdc
(±240Vdc)

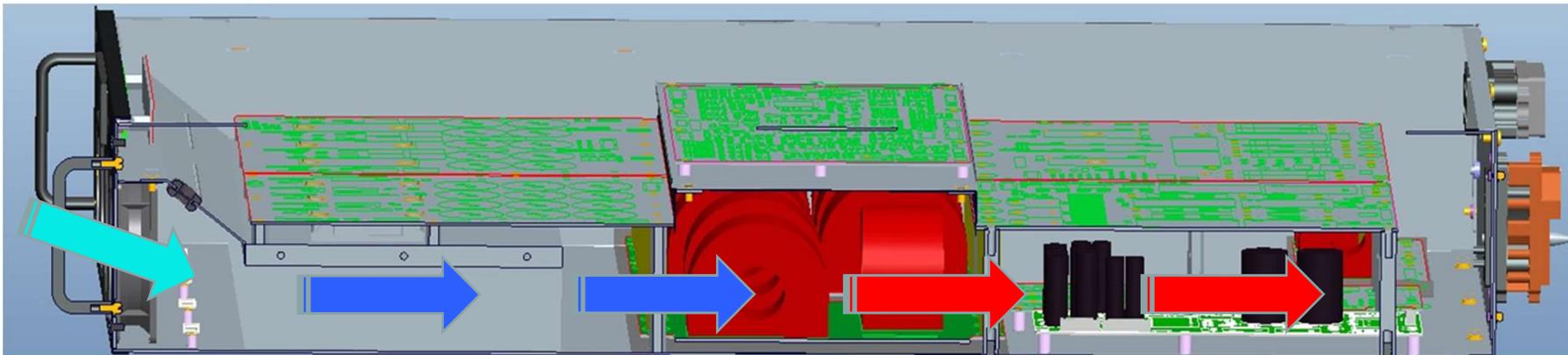
Configuration: Common Connection
Max Charger Current: **9A** for
each module

POWER MODULE 30kVA

Innovative air flow

Double protection:

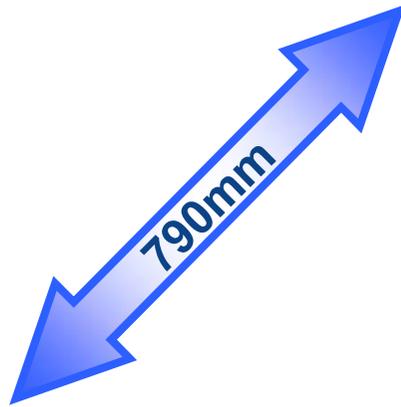
1. Painted PCB
2. Channelled air flowing that not involve PCB



Higher reliability and longer life time!!!

POWER MODULE 30kVA

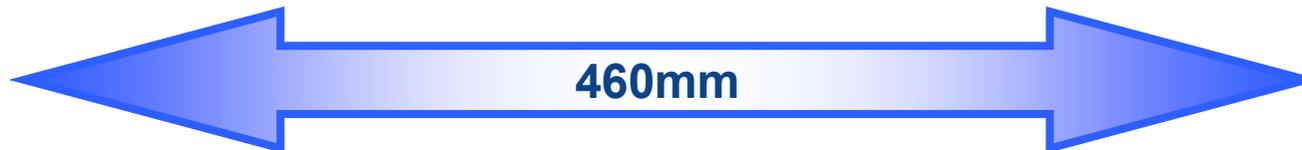
➤ Mechanical features



Weight: 30kg



Rear view – plug in connector



➤ Added values

New mimic panel

Very large (10,4" LCD) color full touch screen LCD panel

- Useful
- Easy
- Complete

Complete analysis of the status of the system

All parameter available both of the system and the modules

A lot of setting available directly from the panel

Fast and easy analysis of the history log

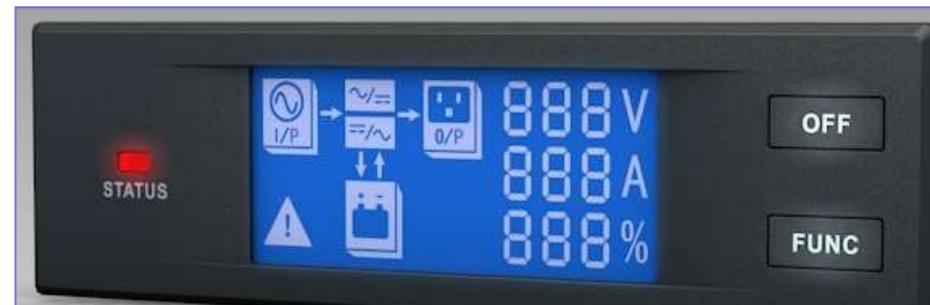
Visible waveform of input and output



➤ Added values



Independent LCD for each PM
Displaying status information



➤ Added values

SMART PARALLEL MANAGEMENT

The system maintains ON only the number of modules needed to supply the load

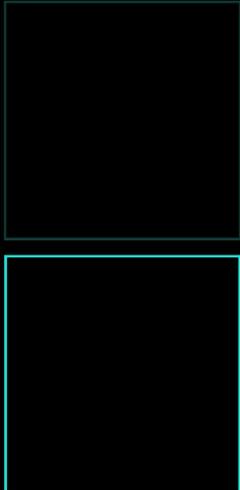
- Optimized efficiency, the system works always in the maximum efficiency point
- reduced losses
- longer lifetime of the system

 **Added values**

SMART MAINTENANCE MANAGEMENT

The system detects the working time of fan and the capacitor and reports when is necessary to make preventive maintenance

- Prevent fault due to the functioning time
- Increase the life time of the system



Thanks for Your attention

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