#### FROM 150 to 300A



FROM 450 to 800



## **GENERAL DESCRIPTION**

- Revo S has been specifically designed for OEM. This product can be costumized
- These simple units can be connected with REVO PC to manage multizone system this minimize your energy cost by controlling synchronization and power limit on each zone
- All circuit board, fuses and Thyristor can be inspected just opening front doar
- Input signal: SSR, Analog as an option
- Zero Crossing, Burst Firing available at 4, 8 or 16 Cycles at 50% Power demand
- Electronic circuit fully isolated from power with constant current drain on input.
- Heater Break alarm option to diagnose partial or total load failure and Thyristor Short circuit
- Internal fixed fuses are standard
- Current transformer integrated (with Heather Break option)
- Special design for Heat sink with very high dissipation value
- Comply with EMC, cUL (pending)
- Panel Mounting
- IP20 Protection available as an option

## **TECHNICAL SPECIFICATION**

Voltage power supply 24V minimum to 480V, 600V and 690V on request

**Voltage Frequency** 50 or 60 Hz no setting needed from 47 to 70 Hz

Nominal Current 150A - 210A - 300A - 450A - 800A

Input Signal SSR 4:30Vdc 5mA Max (on ≥ 4Vdc off ≤ 1Vdc);

Voltage input 0:10Vdc impedance 15 K ohm; Current input 0:20/4:20mA impedance 100 Ohm;

Firing Zero Crossing, Burst Firing with analog input signal only

Auxiliary Voltage Supply 90:130Vac 8VA Max

170:265Vac 8VA Max (Standard)

230:345Vac 8VA Max

300:530Vac 8VA Max (Standard)

510:690Vac 8VA Max

Heather Break Alarm Microprocessor based with automatic setting Digital Input, Relay Output 0,5A at 110V (option)

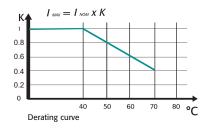
**Mounting** Panel Mounting

Operating Temperature 40 °C without derating. Over this temperature see below derating curve

Storage temperature -25 °C to 70 °C Max

Altitude Over 1000 m of altitude reduce the nominal current of 2% for each 100m

**Humidity** From 5 to 95% without condense and ice



## **OPTION'S FEATURES AND SPECIAL DETAILS**

# **HEATER BREAK ALARM HB**

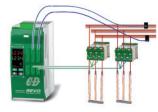
#### **ON FRONT CABINET**



FEW SECOND TO SET AND CALIBRATE ALL THE UNITS

- Microprocessor based circuit
- Capacity to diagnose the failure of one Resistance over five in parallel
- Load failure alarm with LED indication on front unit
- Thyristor short circuit alarm with LED indication on front unit
- Alarm output with free voltage relay contact
- Alarm reset function and possibility to auto reset if the alarm disappear
- Built in Current transformer when heather Break option has been selected
- Self Setting via external command or push button on front unit
- Commom setting command can be given to many units and in a matter of second, the tuning is done, also by a non expert operator

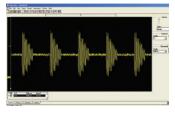
## HOW TO ADD POWER LOAD MANAGMENT AND FEATURES TO YOUR SIMPLE UNITS



APPLICATION WITH 8, 16 OR 24
THREE-PHASE LOADS

Use REVO-PC and you can add these Features

- Communication with different field bus
- Reading of current Voltage and Power
- Istantaneus power very close to average value, no pick power
- Power factor close to one no harmonics
- Prevents increase in energy supply tariffs imposed by your electricity supplier



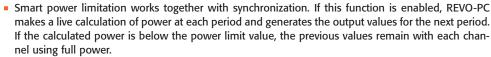
WITHOUT POWER CONTROL OPTI-MISATION

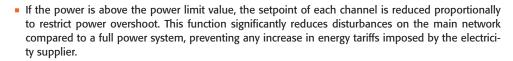
## **Synchronization**

On all controlled zones, REVO-PC Synchronization is automatic resulting in superior performance:

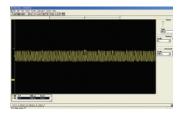
- Total current is equal to a sinusoidal wave form.
- Power factor > 0,9.
- Instantaneous current close to average value.
- Cancellation of harmonics.
- Flickering effect removed.

# **Smart power limitation**





• This function can be activated/deactivated and the limit value changed at any time.



WITH POWER CONTROL OPTIMISA-TION

### APPLICATIONS AND FOCUS ON:

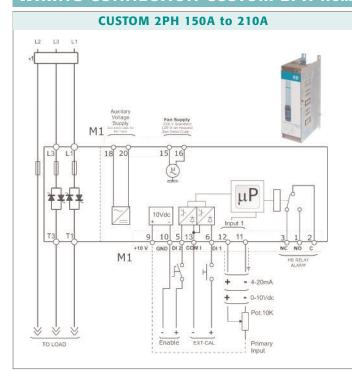
Autoclaves.

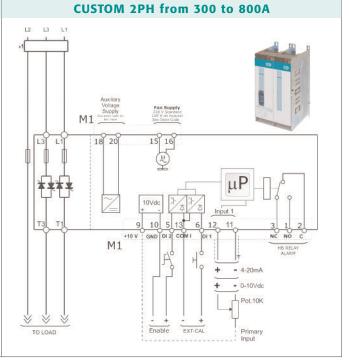
Fournaces.

Dryers

Chemical

## WIRING CONNECTION CUSTOM 2PH from 150A to 800A





#### **LOAD TYPE**



STAR without neutral Resistive or Infrared Lamps Long and medium waves

#### **LOAD TYPE**

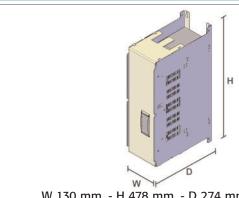


DELTA Resistive or Infrared Lamps Long and medium waves

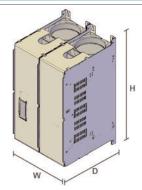
#### **NOTE**

- (1) A suitable device must ensure that the unit can be electrically isolated from the supply, this allows the qualified people to work in safety.
  - The user installation must be protecting by electromagnetic circuit breaker or by fuse isolator. The semiconductor fuses are classified for UL as supplementar protection for semiconductor.
- (2) The heat-sink must be connected to the earth.
- (3) Only for the HB option

# **DIMENSION AND FIXING HOLES**

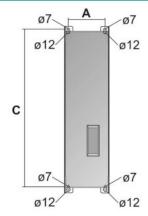


W 130 mm. - H 478 mm. - D 274 mm. - kg. 14

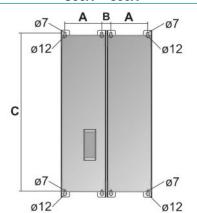


W 260 mm. - H 478 mm. - D 274 mm. - kg. 27

## 150A to 210A

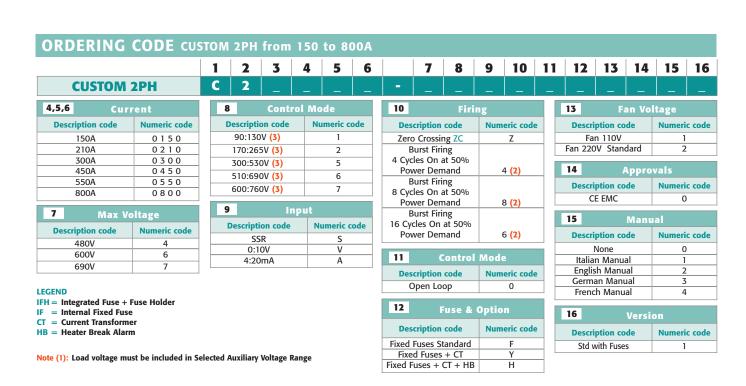


## 300A ÷ 800A



OUTPUT FEATURES (POWER DEVICE)										
Current A	Voltage range (V)	reverse	ve peak voltage (600V)	Latching current (mAeff)	Max peak one cycle (10msec.)	Leakage current (mAeff)	I2T value for fusing tp=10msec.	Frequency range (Hz)	Power loss I=Inom (W)	Isolation Voltage Vac
150/210A	24÷600V	1200	1600	300	4800	15	108000	47÷70	623	2500
300A	24÷600V	1200	1600	200	7800	15	300000	47÷70	875	2500
450A	24÷600V	1200	1600	200	7800	15	300000	47÷70	1021	2500
550A	24÷600V	1200	1600	1000	17800	15	1027000	47÷70	1178	2500
800A	24÷600V	1200	1600	1000	17800	15	1027000	47÷70	1425	2500

Fan Specification	
Supply: 230V Standard	Input Power 17W
Supply: 115V Option	Input Power 14W





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