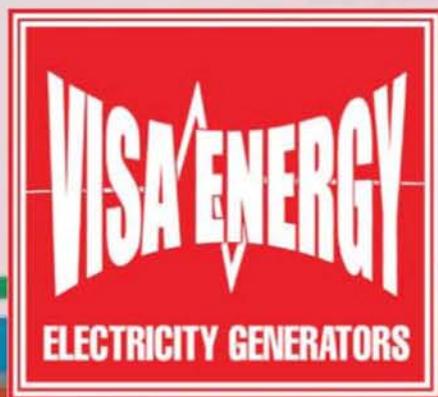
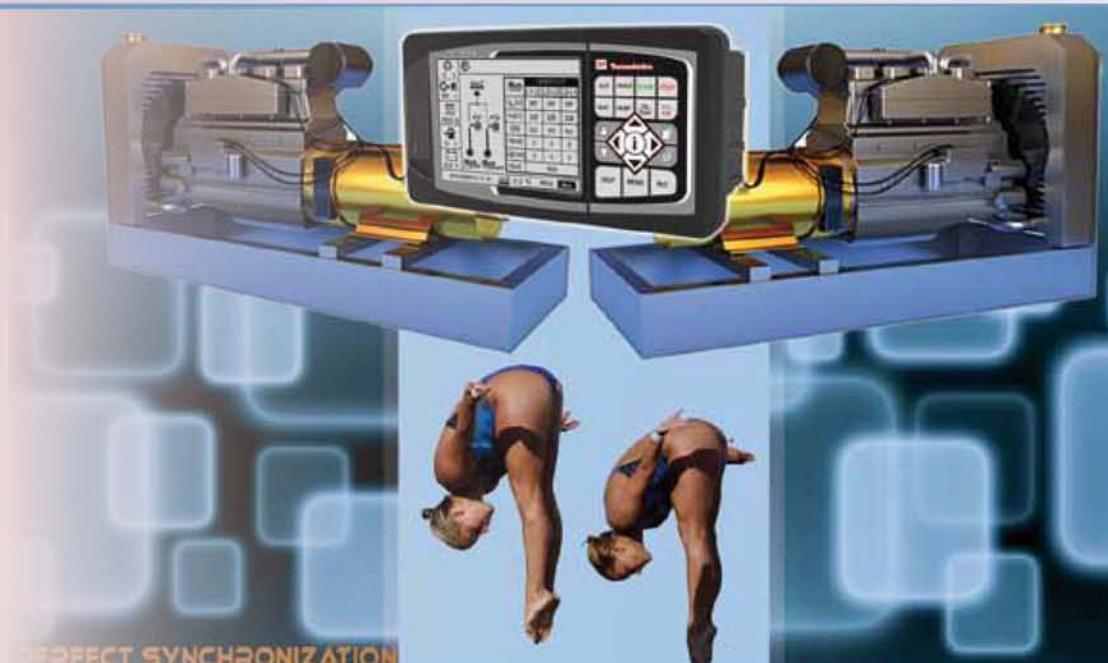




TE808 SYNCHRONIZATION PERFECT SYNCHRO





ELECTRICITY GENERATORS

TE808 Platinum Controller

TE808 synchro systems available

• Synchronizing between n. 2 or more gensets

- 1° option: starting in accordance to the load consumption (progressive). The gensets starting sequence follows the progressive gensets number, (1° gasket 1, 2° gasket 2, etc...).
- 2° option: starting in accordance to the load consumption (dynamic). The gensets starting sequence follows working hour counters, (1st gasket is the one with less working hours, then the next one, etc...).
- 3° option: all the gensets work together and they share the load in accordance to the rated power of each gasket

• Synchronizing between one mains and one gasket with interface control (mains switch)

- 1° option: the gasket is synchronized and it works with the mains. In case of mains failure, mains interface opens and the gasket continues to supply the load alone. When the mains come back, the gasket is synchronized to the mains then the mains interface closes, and both the sources share the load.
- 2° option: the mains supplies alone the load. In case of mains failure, the gaskets starts and it supplies the load. When the mains come back, the gasket is synchronized to the mains then the mains interface closes, and both the sources share the load for some seconds (synchro on mains return) then the gasket switch opens and the gaskets stops after the cooling

• Synchronizing between one mains and one gasket without interface control (mains switch)

- 1° option: the gasket is synchronized and it works with the mains. In case of mains failure, all stops. When the mains come back, is possible to re-synchronize and re-close the gasket with the mains

• Synchronizing between one mains and 2 or more gasket with interface control (mains switch)

- 1° option: master gasket (ID1) works synchronized with the mains. The other gaskets start in accordance to the logic sequence of their remote starts. This sequence is managed by an external TE808 (supervisor), for example a TE808 Silver



TE808 Platinum Controller
24 warranty months from the real installation, automatically detected by the board

TE808 the only board with "Self – learning"® function that allows easy operations and very quick first installation



**The only controllers with HALT-Accelerated Reliability Test certification.
-60 °C to +120 °C @ 60 °C/min -30 gRMS**

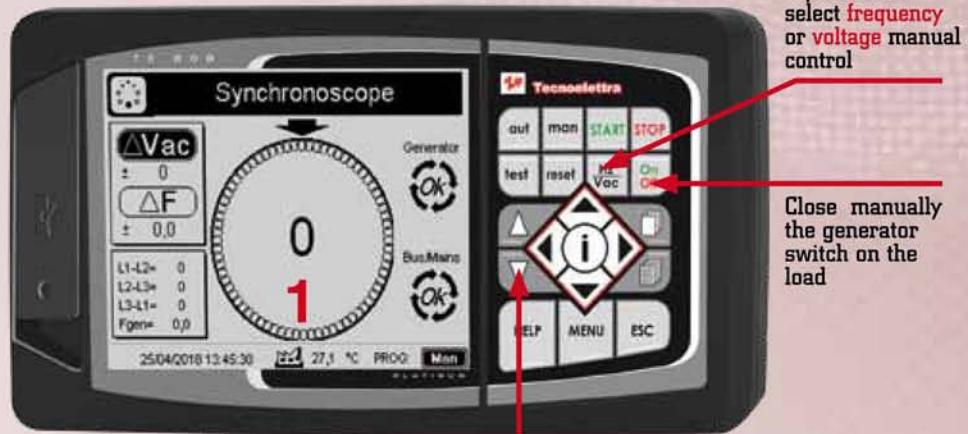


TE808 Platinum perfect synchro

4 most important display pages
4 buttons for manual synchro

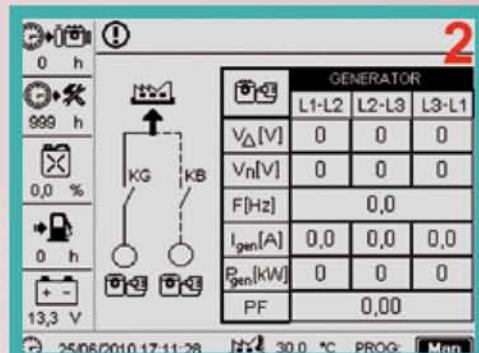
Benefits

- > Mains/generator synchronization
- > Generators synchronization without limits (up to 30 machines)
- > Engines canbus J1939 protocol communication
- > Analog and digital automatic speed governor management
- > Analog automatic AVR management -5+5 Vdc
- > Digital synchronoscope for manual operations
- > Digital zero-voltmeter instrument for manual operations
- > Soft-stop function to prevent operator mistakes (TE808 un-loads power before stopping)
- > Loading time ramp
- > Un-loading time ramp
- > Complete system management, in accordance to the load power request
- > Dynamic start/stop procedure, in accordance to the generators working hours
- > Undercurrent or underpower control
- > Unbalanced load control
- > Overload alarm by magnetothermic protection curve
- > Phases sequence control
- > PID on voltage control
- > PID on power factor control
- > PID on active power control
- > PID on frequency control
- > Remote annunciator modules
- > 4-20mA input for CEI016/CEI021 norm or external management
- > Scada system via PC, GSM, GPRS, Ethernet (TCP/IP)
- > Master management progressive or dynamic +(13...)
- > Sinchro from clockwise or un-clockwise direction
- > Engine starting management
- > Engine stopping management
- > Engine alarms/protections management
- > Engine battery charger excitation device
- > Engine rectifier detection
- > Speed detection from frequency without any additional pickup devices
- > Alternator alarms/protections management
- > Generator MCCB or ACB drive
- > Generator MCCB or ACB feedback control
- > Mains MCCB or ACB drive
- > Mains MCCB or ACB feedback control
- > Active and Reactive power management
- > Power factor management for Mains synchronizing
- > Reverse power protection programmable
- > Voltage matching control programmable
- > Frequency matching control programmable
- > Synchronism matching control programmable
- > TE808s canbus communication
- > Opex for the control of management costs
- > All digital outputs by Relays (5A)
- > Synchronization between sources with different powers

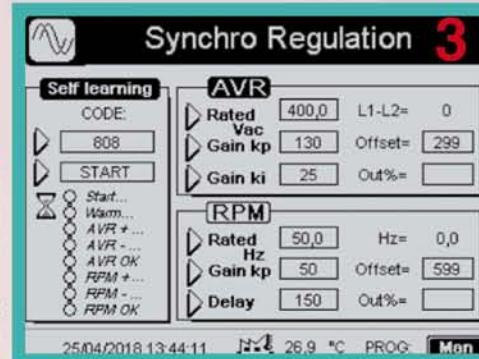


1 Page with synchronoscope: a digital instrument for manual operations

Increase or decrease manually the frequency or the voltage of the generator

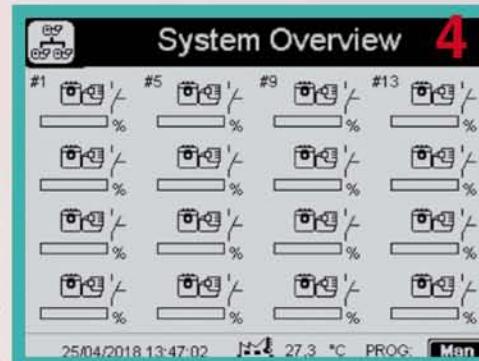


2 Standby page with all the generators working measures and status



"Self learning" page, to launch and control the engine and alternator auto-setting function about synchronization

4
System overview
 System overview page that allows to see all system resources and their working status





ELECTRICITY GENERATORS

Keyboard

- > Start button
- > Stop button
- > Manual mode button
- > Automatic mode button
- > Reset button
- > Esc button
- > Test button
- > Hz/Vac button, to select the value that you want to adjust manually
- > On/Off button to open and close manually the generator switch
- > Help button
- > Menù button
- > Next display page button
- > Previous display page button
- > Navigation drive
- > Increase button, to increase manually the Vac/Hz selected value
- > Decrease button, to decrease manually the Vac/Hz selected value



List alarms and protections (fully user - definable alarms)

- > Starting
- > Alarm: emergency stop
- > Service
- > Battery maintenance
- > Charger alternator failure
- > Stop engine failure
- > Self learning: V governor error
- > Self learning: F governor error
- > Shut down by generator protection
- > Battery charger alarm
- > Maximum reverse power
- > Start attempts
- > Mechanical fault
- > Generator low frequency
- > Generator high frequency
- > Generator low voltage
- > Generator high voltage
- > Generator short circuit
- > Generator current overload
- > Mains low frequency
- > Mains high frequency
- > Mains low voltage
- > Mains high voltage
- > Faulty contactor feedback
- > Faulty synchronization
- > Generator feedback error
- > Bus/mains feedback error
- > Temperature prealarm (Analog)
- > High engine temperature (Analog)
- > High engine temperature (Digital)
- > Fuel prealarm (Analog)
- > Low fuel level (Analog)
- > Low fuel level (Digital)
- > Oil pressure prealarm (Analog)
- > Low oil pressure (Analog)
- > Low oil pressure (Digital)
- > High battery voltage
- > Low battery voltage
- > RPM alarm (too fast)
- > RPM alarm (too slow)
- > Autonomy low
- > Unbalanced current
- > Circuit breaker active
- > Reverse power
- > Unbalanced voltage
- > Bus/mains phase sequence
- > Genset phase sequence

Display: Generator measures

- > Vac:L1/L2-L2/L3-L3/L1-L1N-L2N-L3N
- > Kva:L1-L2-L3
- > KW:L1-L2-L3
- > Cos.fi:L1-L2-L3
- > Hz
- > kVAR
- > kVARh
- > kWh
- > ° phase displacement
- > Fuel instrument
- > Working autonomy
- > Working hourcounter
- > Hours left to next service
- > Daily working hours
- > Working hours in test condition
- > Oil pressure instrument
- > Engine temperature instrument
- > Can Bus + RS485 + RA (Remote Annunciator 11 alarms SRAN)

Technical data

- > Work temperature range: -30°C + 70°C
- > Ambient protection IP65
- > Range Vdc: 8–35
- > Range Vac: 50–500 and up 15kV in MV by Voltage Transformers
- > Measurements precision: 0,2% ±1 digit
- > Voltage and current measurements in true RMS
- > Graphical display: 320x240 pixel
- > Dimensions: 138x257x110
- > Cut out 113x232
- > Weight 3 Kg
- > Omologations:
 - EN61000 - 6 (2), (4) - EN60086-2-2
 - IEC61000 - 4 (2), (3), (4), (5), (6)
 - IEC60086 - 2 (1), (2), (6) + IEC60086 - 2 - 30 - CISPR 16 - 1
 - > OpEx (cost management)

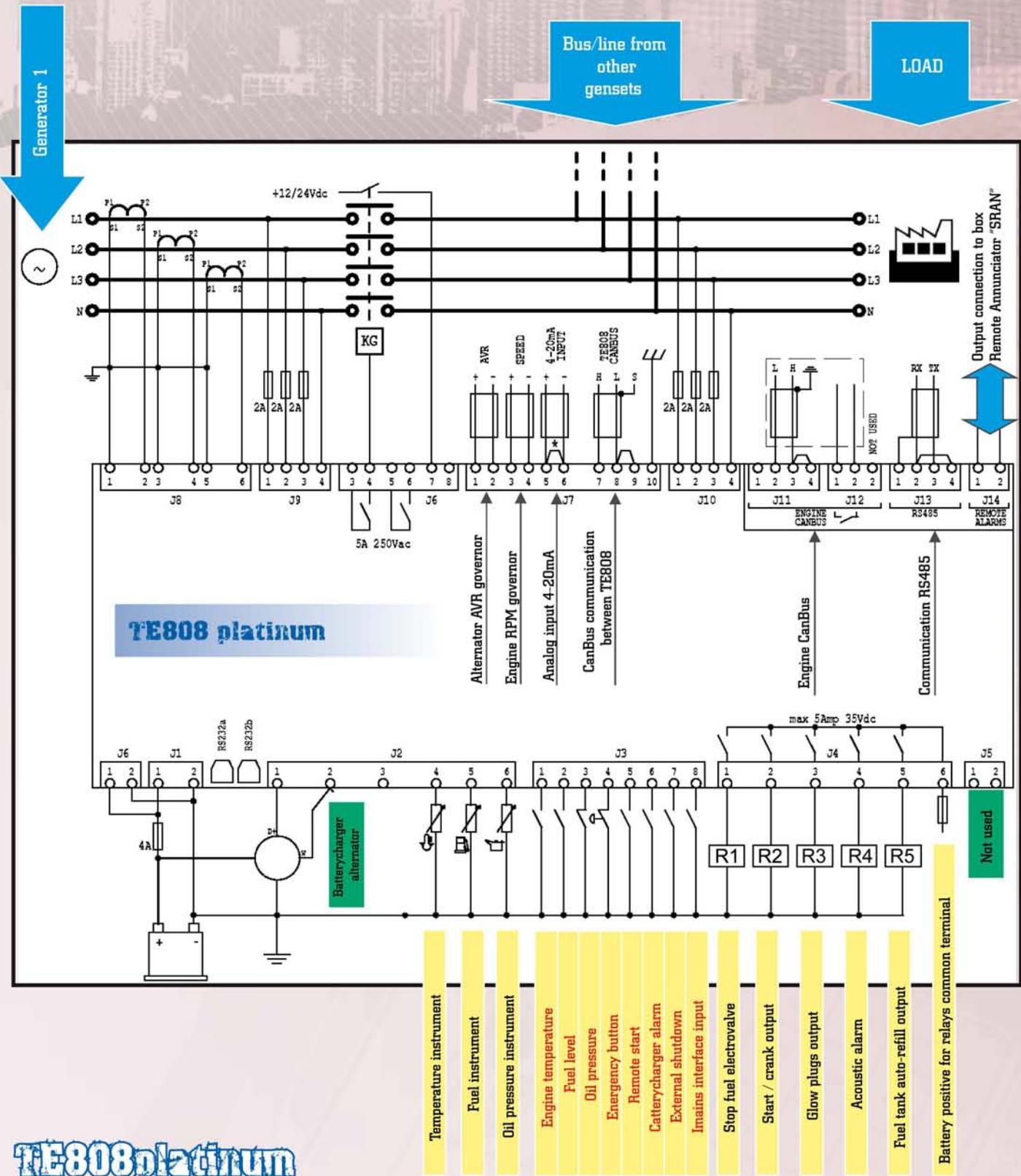
Display: general

- > Clock and date
- > Tecnolettra Logo or custom logo
- > Info page
- > Events log page
- > Active alarms page
- > Controller/panel warranty expiration time
- > Generator warranty expiration time
- > Terminal board connection drawing on the display
- > Ambient temperature

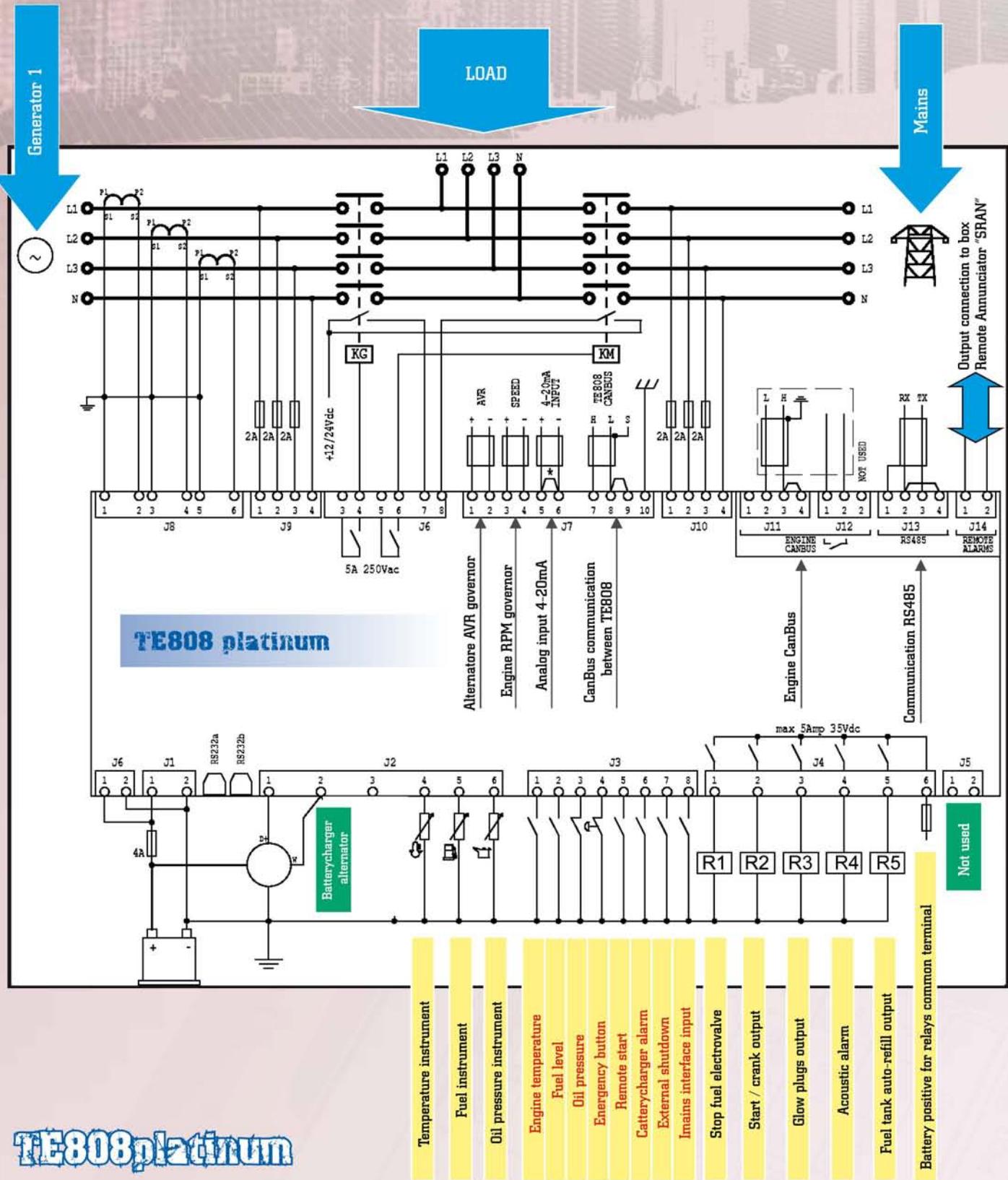
Display Measures: Bus/Mains/Load

- > Ampere: L1-L2-L3
- > Voltage: L1/L2-L2/L3-L3/L1-L1N-L2N-L3N
- > Frequency: Hz

Gensets synchronizing drawing



Genset/Mains synchro drawing



TE808platinum

Guide to panels selection

Many combinations for every request

Synchronizing between gensets

QP8 series for generator basement mounting

Series "B" in a floor installation single cabinet, complete and optimized for 2 gensets from 111 to 1384kVA

Series "A" in a floor installation cabinet from 111 to 2770kVA

Series "C" in a floor installation modular cabinet, from 111 to 2770kVA

Series "SYB808"

Series "SYA808"

Series "SYC808"

Panel for protection on the load output

Modular panel for protection on the load output

Series "SYL"

Series "SYCL"

Synchronizing between gensets and mains

Series "A" in a floor installation cabinet, from 111 to 2770kVA.
Panel dimension changes in accordance to the rated power

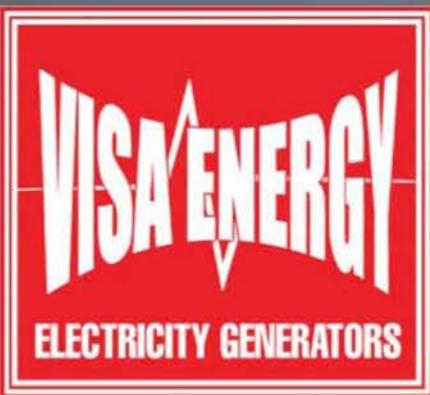
Series "C" in a floor installation modular cabinet 2000x800x800mm, from 111 to 2770kVA
(Same dimension for all the range of powers)

series "SYA808"

+ series "SYR"

series "SYC808"

+ series "SYCR"



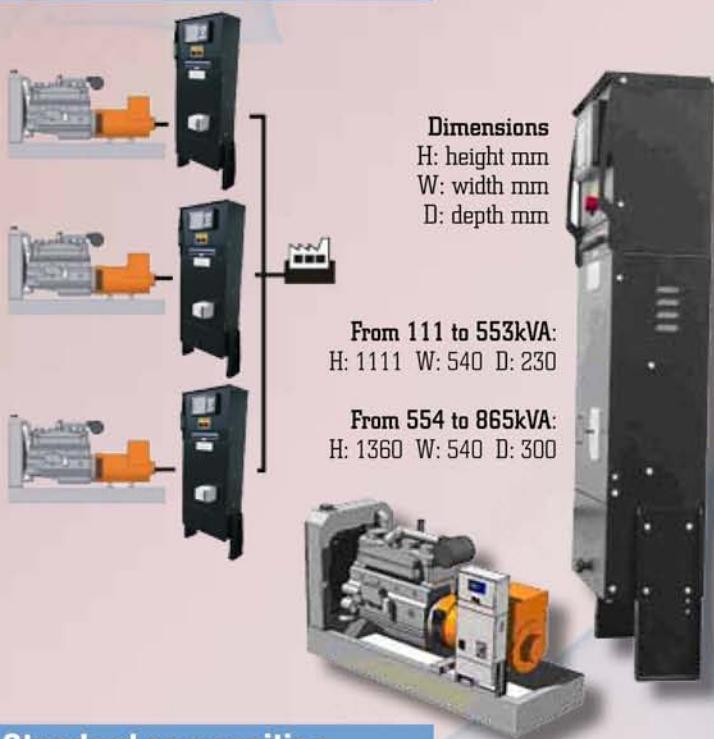
QP808 panels (1 gensets)

For direct basement mounting
from 111 to 865kVA 400Vac 50/60Hz

Panel type QP808 is an exclusive product of Tecnoelettra srl

It is a panel with small dimensions designed for a genset basement mounting. The connections are easy and it can controls and commands all the synchronizing management, included the generator motorized magnetothermic switch. A specific connector permits to connect quickly up to 30 gensets synchronized together in the system.

Application sample



Standard composition

- Metal box with black ephossydic powder painting, supplied with standings for basement mounting
- Automatic batterycharger
- Auxiliary protection fuses
- 1 Acoustic alarm
- 1 Emergency button
- 2 Metal multipoles connectors, for auxiliary engine connections
- 2 Multipoles connectors, for communication between several parallel panels
- 1 Motorized MCCB with tripping coil
- 2 Standings for generator basement mounting
- 1 Bus bar connection (copper nichel-plated) for generator power cable connection
- 1 Bus bar connection (copper nichel-plated)
- 1 TE808 Platinum controller



QP8 3poles	
QP8 TE808 PLATINUM 111KVA 400V 12Vdc 160A 3poli	QP808PWC3111
QP8 TE808 PLATINUM 111KVA 400V 24Vdc 160A 3poli	QP808PWC3111B
QP8 TE808 PLATINUM 138KVA 400V 12Vdc 200A 3poli	QP808PWC3138
QP8 TE808 PLATINUM 138KVA 400V 24Vdc 200A 3poli	QP808PWC3138B
QP8 TE808 PLATINUM 173KVA 400V 12Vdc 250A 3poli	QP808PWC3173
QP8 TE808 PLATINUM 173KVA 400V 24Vdc 250A 3poli	QP808PWC3173B
QP8 TE808 PLATINUM 277KVA 400V 12Vdc 400A 3poli	QP808PWC3277
QP8 TE808 PLATINUM 277KVA 400V 24Vdc 400A 3poli	QP808PWC3277B
QP8 TE808 PLATINUM 436KVA 400V 24Vdc 630A 3poli	QP808PWC3436
QP8 TE808 PLATINUM 554KVA 400V 24Vdc 800A 3poli	QP808PWC3554
QP8 TE808 PLATINUM 692KVA 400V 24Vdc 1000A 3poli	QP808PWC3692
QP8 TE808 PLATINUM 865KVA 400V 24Vdc 1250A 3poli	QP808PWC3865

QP8 4poles	
QP8 TE808 PLATINUM 111KVA 400V 12Vdc 160A 4poli	QP808PWC4111
QP8 TE808 PLATINUM 111KVA 400V 24Vdc 160A 4poli	QP808PWC4111B
QP8 TE808 PLATINUM 138KVA 400V 12Vdc 200A 4poli	QP808PWC4138
QP8 TE808 PLATINUM 138KVA 400V 24Vdc 200A 4poli	QP808PWC4138B
QP8 TE808 PLATINUM 173KVA 400V 12Vdc 250A 4poli	QP808PWC4173
QP8 TE808 PLATINUM 173KVA 400V 24Vdc 250A 4poli	QP808PWC4173B
QP8 TE808 PLATINUM 277KVA 400V 12Vdc 400A 4poli	QP808PWC4277
QP8 TE808 PLATINUM 277KVA 400V 24Vdc 400A 4poli	QP808PWC4277B
QP8 TE808 PLATINUM 436KVA 400V 24Vdc 630A 4poli	QP808PWC4436
QP8 TE808 PLATINUM 554KVA 400V 24Vdc 800A 4poli	QP808PWC4554
QP8 TE808 PLATINUM 692KVA 400V 24Vdc 1000A 4poli	QP808PWC4692
QP8 TE808 PLATINUM 865KVA 400V 24Vdc 1250A 4poli	QP808PWC4865

SYB808 panels (2 gensets)

series "B:SYB808" for 2 gensets
From 2x
(111 to 1384kVA)



Standard composition

- > 1 box IP55 ral 7032/7035
- > 2-TE808platinum controllers
- > 2 Motorized MCCB with tripping coils
- > 2-automatic batterychargers
- > 2-pre-heating switches
- > Protection fuses
- > Bus Bar power system

Panel series SYB808 with magnetothermic switches MCCBs 3poles	H	W	D	KG	
TE808 PLATINUM 2x111kVA 2x160A 400V 3P 12Vdc	SYB808P30111	1650	700	350	125
TE808 PLATINUM 2x111kVA 2x160A 400V 3P 24Vdc	SYB808P30111B	1650	700	350	125
TE808 PLATINUM 2x138kVA 2x200A 400V 3P 12Vdc	SYB808P30138	1650	700	350	125
TE808 PLATINUM 2x138kVA 2x200A 400V 3P 24Vdc	SYB808P30138B	1650	700	350	125
TE808 PLATINUM 2x173kVA 2x250A 400V 3P 12Vdc	SYB808P30173	1650	700	350	125
TE808 PLATINUM 2x173kVA 2x250A 400V 3P 24Vdc	SYB808P30173B	1650	700	350	125
TE808 PLATINUM 2x277kVA 2x400A 400V 3P 12Vdc	SYB808P30277	1800	800	600	145
TE808 PLATINUM 2x277kVA 2x400A 400V 3P 24Vdc	SYB808P30277B	1800	800	600	145
TE808 PLATINUM 2x436kVA 2x630A 400V 3P 24Vdc	SYB808P30436	1800	800	600	175
TE808 PLATINUM 2x554kVA 2x800A 400V 3P 24Vdc	SYB808P30554	2000	1000	800	290
TE808 PLATINUM 2x692kVA 2x1000A 400V 3P 24Vdc	SYB808P30692	2000	1000	800	315
TE808 PLATINUM 2x865kVA 2x1250A 400V 3P 24Vdc	SYB808P30865	2000	1000	800	350
TE808 PLATINUM 2x1107kVA 2x1600A 400V 3P 24Vdc	SYB808P31107	2000	1000	800	410
TE808 PLATINUM 2x1384kVA 2x2000A 400V 3P 24Vdc	SYB808P31384	2000	1600	800	735
Panel series SYB808 with magnetothermic switches MCCBs 4poles	H	W	D	KG	
TE808 PLATINUM 2x111kVA 2x160A 400V 4P 12Vdc	SYB808P40111	1650	700	350	125
TE808 PLATINUM 2x111kVA 2x160A 400V 4P 24Vdc	SYB808P40111B	1650	700	350	125
TE808 PLATINUM 2x138kVA 2x200A 400V 4P 12Vdc	SYB808P40138	1650	700	350	125
TE808 PLATINUM 2x138kVA 2x200A 400V 4P 24Vdc	SYB808P40138B	1650	700	350	125
TE808 PLATINUM 2x173kVA 2x250A 400V 4P 12Vdc	SYB808P40173	1650	700	350	125
TE808 PLATINUM 2x173kVA 2x250A 400V 4P 24Vdc	SYB808P40173B	1650	700	350	125
TE808 PLATINUM 2x277kVA 2x400A 400V 4P 12Vdc	SYB808P40277	1800	800	600	150
TE808 PLATINUM 2x277kVA 2x400A 400V 4P 24Vdc	SYB808P40277B	1800	800	600	150
TE808 PLATINUM 2x436kVA 2x630A 400V 4P 24Vdc	SYB808P40436	1800	800	600	180
TE808 PLATINUM 2x554kVA 2x800A 400V 4P 24Vdc	SYB808P40554	2000	1000	800	295
TE808 PLATINUM 2x692kVA 2x1000A 400V 4P 24Vdc	SYB808P40692	2000	1000	800	325
TE808 PLATINUM 2x865kVA 2x1250A 400V 4P 24Vdc	SYB808P40865	2000	1000	800	360
TE808 PLATINUM 2x1107kVA 2x1600A 400V 4P 24Vdc	SYB808P41107	2000	1000	800	420
TE808 PLATINUM 2x1384kVA 2x2000A 400V 4P 24Vdc	SYB808P41384	2000	1600	800	780



SYA808 panels (1 gensets)

"A:SYA808" for gensets or gensets/mains synchronization from 111 to 2770kVA



series
SYA808



Panels series SYA808

are used to controls and commands systems with gensets synchronized together (up to 30 units) or gensets synchronized with the mains. In the panel are installed all the devices and the features to control synchronizing system, included the motorized magnetothermic switch that protects the generator.

Combining panels series SYR, SYR808 and SYL (all with the same dimension of the SYA808 box) you can satisfy several systems solutions:

Samples:

- > SYA808 + SYA808 +..... max.30: to synchronize only gensets, up to 30 units
- > SYA808 + SYA808 + SYL: to

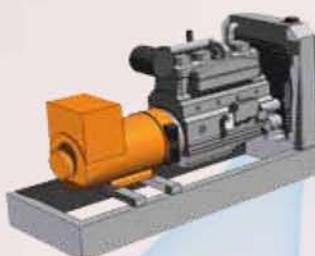
synchronize 2 gensets with one more panel, to protect load line.

In this case the power limit is in accordance to the maximum current of the box SYL=4000A.

- > SYA808 + SYR: to synchronize one genset with the mains. In this case you can use up to 30 SYA808 panels

The dimensions of the panels are the follows:

- > 1350x600x300 from 111 to 436kVA
- > 1650x700x350 from 554 to 1107kVA
- > 2000x800x800 from 1384 to 2770kVA



Standard composition

- > 1 box IP55 ral 7032/7035
- > 1-TE808 platinum controller
- > 1 Motorized MCCB with tripping coil
- > 1-automatic batterycharger
- > 1-pre-heating switch
- > Protection fuses
- > Bus Bar power system

SYR - BOX

with motorized MCB for synchro with mains

SYL - BOX

with MCB to protect load line

from 111 to 2770kVA



Panels series SYR e SYL

Panels series SYR and SYL permits, if combined to the series SYA808, to obtain several types of solutions, for example:

- SYA808 +SYA808 +SYL: to synchronize 2 gensets with one more panel, to protect load line.

In this case the power limit is in accordance to the maximum current of the box SYL=4000A

- SYA808 +SYR: to synchronize one genset with the mains by SYR box.
- SYA+SYR+SYL: to synchronize one genset with the mains by SYR box, and add one more panel for load line protection

In this case you can use up to 30 SYA808 panels
N.B on the SYR box is possible to install a TE808 controller to satisfy **CUSTOM** solutions to manage start and stop sequence of the gensets.

For sample: timered turnover of the gensets synchronized with the mains



Box SYR e SYL dimension

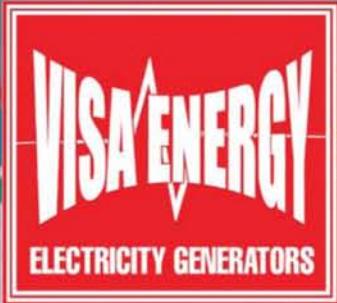
- Both in box of following dimensions:
 - 1350x600x300 from 111 to 436kVA
 - 1650x700x350 from 554 to 1107kVA
 - 2000x800x800 from 1384 to 2770kVA

Standard composition: SYR

- 1- box IP55 ral 7032/7035
- 1 - Motorized MCCB with tripping coil
- Protection fuses
- Bus Bar power system

Standard composition: SYL

- 1- box IP55 ral 7032/7035
- 1- MCCB (manual magnetothermic switch)
- Protection fuses
- Bus Bar power system



Codes Synchronizing panels series "A: SYA808"

from 111 to 2770kVA 400Vac
with TE808 platinum

SYA808 - 3 POLES

Panel series SYA808 with motorized magnetothermic switch MCCB 3poles		H	W	D	KG
TE808 PLATINUM 111kVA 160A 400V 3P 12Vdc	SYA808P30111	1350	600	300	75
TE808 PLATINUM 111kVA 160A 400V 3P 24Vdc	SYA808P30111B	1350	600	300	75
TE808 PLATINUM 138kVA 200A 400V 3P 12Vdc	SYA808P30138	1350	600	300	75
TE808 PLATINUM 138kVA 200A 400V 3P 24Vdc	SYA808P30138B	1350	600	300	75
TE808 PLATINUM 173kVA 250A 400V 3P 12Vdc	SYA808P30173	1350	600	300	75
TE808 PLATINUM 173kVA 250A 400V 3P 24Vdc	SYA808P30173B	1350	600	300	75
TE808 PLATINUM 277kVA 400A 400V 3P 12Vdc	SYA808P30277	1350	600	300	80
TE808 PLATINUM 277kVA 400A 400V 3P 24Vdc	SYA808P30277B	1350	600	300	80
TE808 PLATINUM 436kVA 630A 400V 3P 24Vdc	SYA808P30436	1350	600	300	80
TE808 PLATINUM 554kVA 800A 400V 3P 24Vdc	SYA808P30554	1650	700	350	165
TE808 PLATINUM 692kVA 1000A 400V 3P 24Vdc	SYA808P30692	1650	700	350	170
TE808 PLATINUM 865kVA 1250A 400V 3P 24Vdc	SYA808P30865	1650	700	350	170
TE808 PLATINUM 1107kVA 1600A 400V 3P 24Vdc	SYA808P31107	1650	700	350	200
TE808 PLATINUM 1384kVA 2000A 400V 3P 24Vdc	SYA808P31384	2000	800	800	325
TE808 PLATINUM 1730kVA 2500A 400V 3P 24Vdc	SYA808P31730	2000	800	800	370
TE808 PLATINUM 2214kVA 3200A 400V 3P 24Vdc	SYA808P32214	2000	800	800	490
TE808 PLATINUM 2770kVA 4000A 400V 3P 24Vdc	SYA808P32770	2100	1000	1000	600

SYA808 - 4 POLES

Panel series SYA808 with motorized magnetothermic switch MCCB 4poles		H	W	D	KG
TE808 PLATINUM 111kVA 160A 400V 4P 12Vdc	SYA808P40111	1350	600	300	75
TE808 PLATINUM 111kVA 160A 400V 4P 24Vdc	SYA808P40111B	1350	600	300	75
TE808 PLATINUM 138kVA 200A 400V 4P 12Vdc	SYA808P40138	1350	600	300	75
TE808 PLATINUM 138kVA 200A 400V 4P 24Vdc	SYA808P40138B	1350	600	300	75
TE808 PLATINUM 173kVA 250A 400V 4P 12Vdc	SYA808P40173	1350	600	300	75
TE808 PLATINUM 173kVA 250A 400V 4P 24Vdc	SYA808P40173B	1350	600	300	75
TE808 PLATINUM 277kVA 400A 400V 4P 12Vdc	SYA808P40277	1350	600	300	80
TE808 PLATINUM 277kVA 400A 400V 4P 24Vdc	SYA808P40277B	1350	600	300	80
TE808 PLATINUM 436kVA 630A 400V 4P 24Vdc	SYA808P40436	1350	600	300	80
TE808 PLATINUM 554kVA 800A 400V 4P 24Vdc	SYA808P40554	1650	700	350	170
TE808 PLATINUM 692kVA 1000A 400V 4P 24Vdc	SYA808P40692	1650	700	350	175
TE808 PLATINUM 865kVA 1250A 400V 4P 24Vdc	SYA808P40865	1650	700	350	175
TE808 PLATINUM 1107kVA 1600A 400V 4P 24Vdc	SYA808P41107	1650	700	350	205
TE808 PLATINUM 1384kVA 2000A 400V 4P 24Vdc	SYA808P41384	2000	800	800	345
TE808 PLATINUM 1730kVA 2500A 400V 4P 24Vdc	SYA808P41730	2000	800	800	390
TE808 PLATINUM 2214kVA 3200A 400V 4P 24Vdc	SYA808P42214	2000	800	800	525
TE808 PLATINUM 2770kVA 4000A 400V 4P 24Vdc	SYA808P42770	2100	1000	1000	620

Dimensions

H: height mm - W: width mm - D: depth mm

Codes Mains and Line protection panels series: SYR-SYL

SYR - SYL CODES

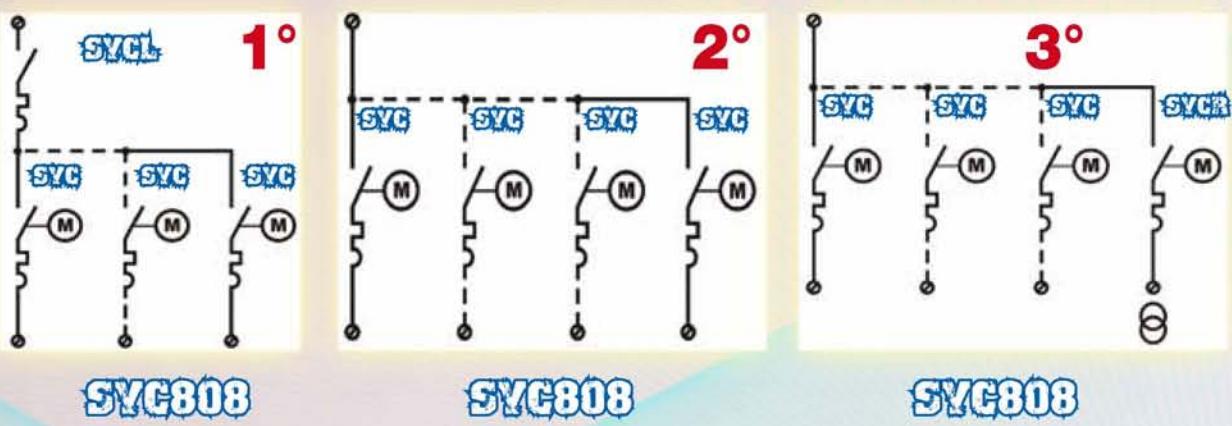
Mains panel with motorized magnetothermic switch MCCB 3 poles		H	W	D	KG
MAINS BOX 111kVA 160A 400V 3P	SYR30111	1350	600	300	70
MAINS BOX 138kVA 200A 400V 3P	SYR30138	1350	600	300	70
MAINS BOX 173kVA 250A 400V 3P	SYR30173	1350	600	300	70
MAINS BOX 277kVA 400A 400V 3P	SYR30277	1350	600	300	75
MAINS BOX 436kVA 630A 400V 3P	SYR30436	1350	600	300	80
MAINS BOX 554kVA 800A 400V 3P	SYR30554	1650	700	350	150
MAINS BOX 692kVA 1000A 400V 3P	SYR30692	1650	700	350	155
MAINS BOX 865kVA 1250A 400V 3P	SYR30865	1650	700	350	155
MAINS BOX 1107kVA 1600A 400V 3P	SYR31107	1650	700	350	160
MAINS BOX 1384kVA 2000A 400V 3P	SYR31384	2000	800	800	280
MAINS BOX 1730kVA 2500A 400V 3P	SYR31730	2000	800	800	325
MAINS BOX 2214kVA 3200A 400V 3P	SYR32214	2000	800	800	395
MAINS BOX 2770kVA 4000A 400V 3P	SYR32770	2100	1000	1000	575
Mains panel with motorized magnetothermic switch MCCB 4 poles		H	W	D	KG
MAINS BOX 111kVA 160A 400V 4P	SYR40111	1350	600	300	70
MAINS BOX 138kVA 200A 400V 4P	SYR40138	1350	600	300	70
MAINS BOX 173kVA 250A 400V 4P	SYR40173	1350	600	300	70
MAINS BOX 277kVA 400A 400V 4P	SYR40277	1350	600	300	75
MAINS BOX 436kVA 630A 400V 4P	SYR40436	1350	600	300	80
MAINS BOX 554kVA 800A 400V 4P	SYR40554	1650	700	350	150
MAINS BOX 692kVA 1000A 400V 4P	SYR40692	1650	700	350	160
MAINS BOX 865kVA 1250A 400V 4P	SYR40865	1650	700	350	160
MAINS BOX 1107kVA 1600A 400V 4P	SYR41107	1650	700	350	165
MAINS BOX 1384kVA 2000A 400V 4P	SYR41384	2000	800	800	305
MAINS BOX 1730kVA 2500A 400V 4P	SYR41730	2000	800	800	350
MAINS BOX 2214kVA 3200A 400V 4P	SYR42214	2000	800	800	430
MAINS BOX 2770kVA 4000A 400V 4P	SYR42770	2100	1000	1000	595

Line protection panel with manual magnetothermic switch MCCB 3 poles		H	W	D	KG
LINE BOX 111kVA 160A 400V 3P	SYL30111	1350	600	300	70
LINE BOX 138kVA 200A 400V 3P	SYL30138	1350	600	300	70
LINE BOX 173kVA 250A 400V 3P	SYL30173	1350	600	300	70
LINE BOX 277kVA 400A 400V 3P	SYL30277	1350	600	300	75
LINE BOX 436kVA 630A 400V 3P	SYL30436	1350	600	300	80
LINE BOX 554kVA 800A 400V 3P	SYL30554	1650	700	350	150
LINE BOX 692kVA 1000A 400V 3P	SYL30692	1650	700	350	155
LINE BOX 865kVA 1250A 400V 3P	SYL30865	1650	700	350	155
LINE BOX 1107kVA 1600A 400V 3P	SYL31107	1650	700	350	160
LINE BOX 1384kVA 2000A 400V 3P	SYL31384	2000	800	800	280
LINE BOX 1730kVA 2500A 400V 3P	SYL31730	2000	800	800	325
LINE BOX 2214kVA 3200A 400V 3P	SYL32214	2000	800	800	395
LINE BOX 2770kVA 4000A 400V 3P	SYL32770	2100	1000	1000	575
Line protection panel with manual magnetothermic switch MCCB 4 poles		H	W	D	KG
LINE BOX 111kVA 160A 400V 4P	SYL40111	1350	600	300	70
LINE BOX 138kVA 200A 400V 4P	SYL40138	1350	600	300	70
LINE BOX 173kVA 250A 400V 4P	SYL40173	1350	600	300	70
LINE BOX 277kVA 400A 400V 4P	SYL40277	1350	600	300	75
LINE BOX 436kVA 630A 400V 4P	SYL40436	1350	600	300	80
LINE BOX 554kVA 800A 400V 4P	SYL40554	1650	700	350	150
LINE BOX 692kVA 1000A 400V 4P	SYL40692	1650	700	350	160
LINE BOX 865kVA 1250A 400V 4P	SYL40865	1650	700	350	160
LINE BOX 1107kVA 1600A 400V 4P	SYL41107	1650	700	350	165
LINE BOX 1384kVA 2000A 400V 4P	SYL41384	2000	800	800	305
LINE BOX 1730kVA 2500A 400V 4P	SYL41730	2000	800	800	350
LINE BOX 2214kVA 3200A 400V 4P	SYL42214	2000	800	800	430
LINE BOX 2770kVA 4000A 400V 4P	SYL42770	2100	1000	1000	595

Dimensions H: height mm - W: width mm - D: depth mm

Synchronizing panels in MODULAR box

2000x800x800 series "C:SYC808-SYCR-SYCL"
to synchronize gensets or gensets/mains
systems from 111 to 2770kVA



Panels series SYC808 - SYCR - SYCL

Panels series "SYC808-SYCR-SYCL" are made in modular boxes with the same dimensions 2000x800x800 (1000 mm depth only for 2770kVA) for all the powers from 111 to 2770kVA. This solution is studied to permit the connection of several panels together, also with different powers.

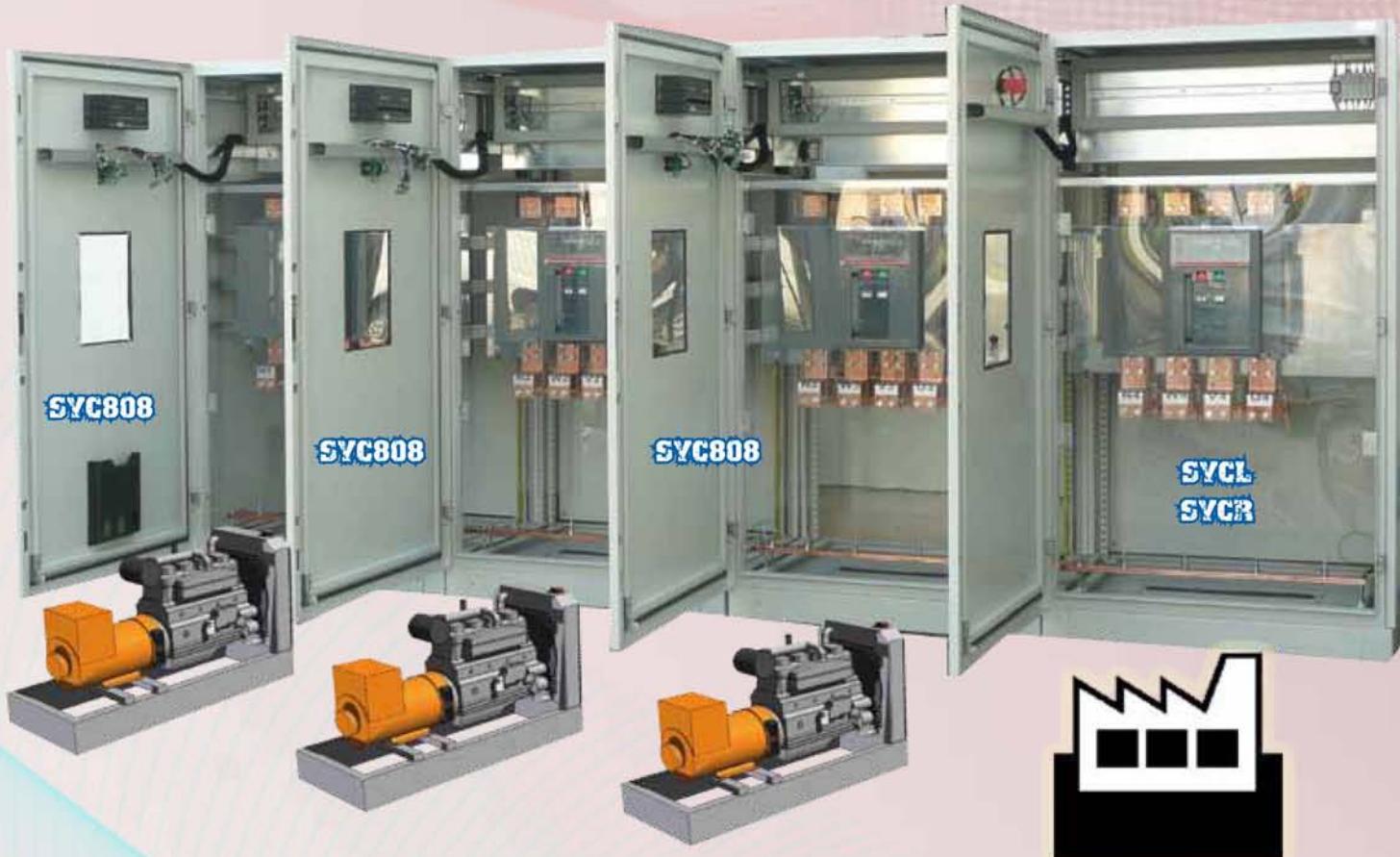
The composition of the panels offers several synchronizing solutions

samples:

- > 1° SYC808 + SYC808 +SYCL: to synchronize 2 gensets with one more panel, to protect load line.
In this case the power limit is in accordance to the maximum current of the box SYCL=4000A
- > 2° SYC808 + SYC808 +.....max. 30 to synchronize only gensets, up to 30 units
- > 3° SYC808 + SYCR: to synchronize one genset with the mains. In this case you can use up to 30 SYC808 panels

Synchronizing panels in MODULAR box

2000x800x800 series "C:SYC808-SYCR-SYCL"
to synchronize gensets or gensets/mains
systems from 111 to 2770kVA



Series SYC808

In series **SYC808** are installed all the commands and controls to manage the synchronizing system, included the motorized magnetothermic switch

Series SYCR

In series **SYCR** are available all the signals and controls to manage the synchronizing to the mains, included the motorized magnetothermic switch

Series SYCL

Series **SYCL** is a panel that protects the line of the load, by the magnetothermic switch installed inside

Standard composition

- > 1 MODULAR box IP55 ral 7032/7035
- > 1 TE808platinum controller
- > 1 motorized MCCB switch with tripping coil
- > 1-automatic batterycharger
- > 1-pre-heating switch
- > Protection fuses
- > Bus Bar power system

Standard composition

- > 1 MODULAR box IP55 ral 7032/7035
- > 1 motorized MCCB switch with tripping coil
- > Protection fuses
- > Bus Bar power system

Standard composition

- > 1 MODULAR box IP55 ral 7032/7035
- > 1 manual magnetothermic switch MCCB
- > Protection fuses
- > Bus Bar power system

Warning!

Synchronizing systems in Europe between mains and gensets, needs an optional device code 1571808B showed in the accessories page (norm CEI021)



Modular synchro panels series "C: SYC808"

from 111 to 2770kVA 400Vac
with TE808 platinum

SYC808 - 3 POLES

Panel series SYC808 with motorized magnetothermic switch MCCB 3 poles		H	W	D	KG
TE808 PLATINUM 111kVA 160A 400V 3P 12Vdc	SYC808P30111	2000	800	800	130
TE808 PLATINUM 111kVA 160A 400V 3P 24Vdc	SYC808P30111B	2000	800	800	130
TE808 PLATINUM 138kVA 200A 400V 3P 12Vdc	SYC808P30138	2000	800	800	130
TE808 PLATINUM 138kVA 200A 400V 3P 24Vdc	SYC808P30138B	2000	800	800	130
TE808 PLATINUM 173kVA 250A 400V 3P 12Vdc	SYC808P30173	2000	800	800	130
TE808 PLATINUM 173kVA 250A 400V 3P 24Vdc	SYC808P30173B	2000	800	800	130
TE808 PLATINUM 277kVA 400A 400V 3P 12Vdc	SYC808P30277	2000	800	800	135
TE808 PLATINUM 277kVA 400A 400V 3P 24Vdc	SYC808P30277B	2000	800	800	135
TE808 PLATINUM 436kVA 630A 400V 3P 24Vdc	SYC808P30436	2000	800	800	140
TE808 PLATINUM 554kVA 800A 400V 3P 24Vdc	SYC808P30554	2000	800	800	170
TE808 PLATINUM 692kVA 1000A 400V 3P 24Vdc	SYC808P30692	2000	800	800	180
TE808 PLATINUM 865kVA 1250A 400V 3P 24Vdc	SYC808P30865	2000	800	800	180
TE808 PLATINUM 1107kVA 1600A 400V 3P 24Vdc	SYC808P31107	2000	800	800	200
TE808 PLATINUM 1384kVA 2000A 400V 3P 24Vdc	SYC808P31384	2000	800	800	325
TE808 PLATINUM 1730kVA 2500A 400V 3P 24Vdc	SYC808P31730	2000	800	800	370
TE808 PLATINUM 2214kVA 3200A 400V 3P 24Vdc	SYC808P32214	2000	800	800	495
TE808 PLATINUM 2770kVA 4000A 400V 3P 24Vdc	SYC808P32770	2000	1000	800	560

SYC808 - 4 POLES

Panel series SYC808 with motorized magnetothermic switch MCCB 4 poles		H	W	D	KG
TE808 PLATINUM 111kVA 160A 400V 4P 12Vdc	SYC808P40111	2000	800	800	130
TE808 PLATINUM 111kVA 160A 400V 4P 24Vdc	SYC808P40111B	2000	800	800	130
TE808 PLATINUM 138kVA 200A 400V 4P 12Vdc	SYC808P40138	2000	800	800	130
TE808 PLATINUM 138kVA 200A 400V 4P 24Vdc	SYC808P40138B	2000	800	800	130
TE808 PLATINUM 173kVA 250A 400V 4P 12Vdc	SYC808P40173	2000	800	800	130
TE808 PLATINUM 173kVA 250A 400V 4P 24Vdc	SYC808P40173B	2000	800	800	130
TE808 PLATINUM 277kVA 400A 400V 4P 12Vdc	SYC808P40277	2000	800	800	140
TE808 PLATINUM 277kVA 400A 400V 4P 24Vdc	SYC808P40277B	2000	800	800	140
TE808 PLATINUM 436kVA 630A 400V 4P 24Vdc	SYC808P40436	2000	800	800	145
TE808 PLATINUM 554kVA 800A 400V 4P 24Vdc	SYC808P40554	2000	800	800	175
TE808 PLATINUM 692kVA 1000A 400V 4P 24Vdc	SYC808P40692	2000	800	800	185
TE808 PLATINUM 865kVA 1250A 400V 4P 24Vdc	SYC808P40865	2000	800	800	185
TE808 PLATINUM 1107kVA 1600A 400V 4P 24Vdc	SYC808P41107	2000	800	800	205
TE808 PLATINUM 1384kVA 2000A 400V 4P 24Vdc	SYC808P41384	2000	800	800	350
TE808 PLATINUM 1730kVA 2500A 400V 4P 24Vdc	SYC808P41730	2000	800	800	395
TE808 PLATINUM 2214kVA 3200A 400V 4P 24Vdc	SYC808P42214	2000	800	800	530
TE808 PLATINUM 2770kVA 4000A 400V 4P 24Vdc	SYC808P42770	2000	1000	800	590

Dimensions

H: height mm - W: width mm - D: depth mm

Modular panels for synchro with mains and load protection series :SYCR-SYCL

Mains panel with motorized magnetothermic switch MCCB 3 poles	H	W	D	KG
MAINS BOX 111kVA 160A 400V 3P	SYCR30111	2000	800	800
MAINS BOX 138kVA 200A 400V 3P	SYCR30138	2000	800	800
MAINS BOX 173kVA 250A 400V 3P	SYCR30173	2000	800	800
MAINS BOX 277kVA 400A 400V 3P	SYCR30277	2000	800	800
MAINS BOX 436kVA 630A 400V 3P	SYCR30436	2000	800	800
MAINS BOX 554kVA 800A 400V 3P	SYCR30554	2000	800	800
MAINS BOX 692kVA 1000A 400V 3P	SYCR30692	2000	800	800
MAINS BOX 865kVA 1250A 400V 3P	SYCR30865	2000	800	800
MAINS BOX 1107kVA 1600A 400V 3P	SYCR31107	2000	800	800
MAINS BOX 1384kVA 2000A 400V 3P	SYCR31384	2000	800	800
MAINS BOX 1730kVA 2500A 400V 3P	SYCR31730	2000	800	800
MAINS BOX 2214kVA 3200A 400V 3P	SYCR32214	2000	800	800
MAINS BOX 2770kVA 4000A 400V 3P	SYCR32770	2000	1000	800
Mains panel with motorized magnetothermic switch MCCB 4 poles	H	W	D	KG
MAINS BOX 111kVA 160A 400V 4P	SYCR40111	2000	800	800
MAINS BOX 138kVA 200A 400V 4P	SYCR40138	2000	800	800
MAINS BOX 173kVA 250A 400V 4P	SYCR40173	2000	800	800
MAINS BOX 277kVA 400A 400V 4P	SYCR40277	2000	800	800
MAINS BOX 436kVA 630A 400V 4P	SYCR40436	2000	800	800
MAINS BOX 554kVA 800A 400V 4P	SYCR40554	2000	800	800
MAINS BOX 692kVA 1000A 400V 4P	SYCR40692	2000	800	800
MAINS BOX 865kVA 1250A 400V 4P	SYCR40865	2000	800	800
MAINS BOX 1107kVA 1600A 400V 4P	SYCR41107	2000	800	800
MAINS BOX 1384kVA 2000A 400V 4P	SYCR41384	2000	800	800
MAINS BOX 1730kVA 2500A 400V 4P	SYCR41730	2000	800	800
MAINS BOX 2214kVA 3200A 400V 4P	SYCR42214	2000	800	800
MAINS BOX 2770kVA 4000A 400V 4P	SYCR42770	2000	1000	800

Line protection panel with manual magnetothermic switch MCCB 3 poles	H	W	D	KG
LINE BOX 111kVA 160A 400V 3P	SYCL30111	2000	800	800
LINE BOX 138kVA 200A 400V 3P	SYCL30138	2000	800	800
LINE BOX 173kVA 250A 400V 3P	SYCL30173	2000	800	800
LINE BOX 277kVA 400A 400V 3P	SYCL30277	2000	800	800
LINE BOX 436kVA 630A 400V 3P	SYCL30436	2000	800	800
LINE BOX 554kVA 800A 400V 3P	SYCL30554	2000	800	800
LINE BOX 692kVA 1000A 400V 3P	SYCL30692	2000	800	800
LINE BOX 865kVA 1250A 400V 3P	SYCL30865	2000	800	800
LINE BOX 1107kVA 1600A 400V 3P	SYCL31107	2000	800	800
LINE BOX 1384kVA 2000A 400V 3P	SYCL31384	2000	800	800
LINE BOX 1730kVA 2500A 400V 3P	SYCL31730	2000	800	800
LINE BOX 2214kVA 3200A 400V 3P	SYCL32214	2000	800	800
LINE BOX 2770kVA 4000A 400V 3P	SYCL32770	2000	1000	800
Line protection panel with manual magnetothermic switch MCCB 4 poles	H	W	D	KG
LINE BOX 111kVA 160A 400V 4P	SYCL40111	2000	800	800
LINE BOX 138kVA 200A 400V 4P	SYCL40138	2000	800	800
LINE BOX 173kVA 250A 400V 4P	SYCL40173	2000	800	800
LINE BOX 277kVA 400A 400V 4P	SYCL40277	2000	800	800
LINE BOX 436kVA 630A 400V 4P	SYCL40436	2000	800	800
LINE BOX 554kVA 800A 400V 4P	SYCL40554	2000	800	800
LINE BOX 692kVA 1000A 400V 4P	SYCL40692	2000	800	800
LINE BOX 865kVA 1250A 400V 4P	SYCL40865	2000	800	800
LINE BOX 1107kVA 1600A 400V 4P	SYCL41107	2000	800	800
LINE BOX 1384kVA 2000A 400V 4P	SYCL41384	2000	800	800
LINE BOX 1730kVA 2500A 400V 4P	SYCL41730	2000	800	800
LINE BOX 2214kVA 3200A 400V 4P	SYCL42214	2000	800	800
LINE BOX 2770kVA 4000A 400V 4P	SYCL42770	2000	1000	800

Dimensions H: height mm - W: width mm - D: depth mm



1571806B -GSM/GPRS modem



**1571806H -GPS/GPRS
Terminal Quad Band-GSM**



1571806G Serial Ethernet Converter



Mains control and protection device,
in case of genset in synchro with the
mains for energy production
(CEI 0-21)
Code: **1571808B**



Only for european market



TE808 platinum medium voltage solutions

Mains - generator synchronizing
medium voltage with TE808 Platinum

