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PLANT SETUP QAC TWIN POWER

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HOW TO CREATE A PLANT WITH 2 OR MORE QAC TWIN POWER

- This document explains how to setup a plant with several QAC TWINPOWER running in parallel
- All the steps are done from the HMI panel Qd1001
- Qc4004 firmware should be 4.74.1 or newer
- Qd1001 should be 1.2.0.2 or newer
- The process to setup the plant will be done by means of Easy Connect function
- Every QAC Twinpower includes 2 generator sets (G1 and G2)
- This example shows how to setup a plant with 2 pcs QAC TWINPOWER (UNIT 1 and UNIT 2)



INTRODUCTION



SELECT SEMI-AUTO (ALL CONTROLLERS) & SINGLE























HOW TO CREATE A PLANT WITH 2 OR MORE QAC TWIN POWER

- Repeat previous steps on:
 - UNIT 1 G2
 - UNIT 2 G1
 - UNIT 2 G2

During the process, if the message Start New Plant promps before configuring the last unit, press the cancel button and wait for untill the Receiving Application message is removed. If the message DG Ready to be added promps, just press the cancel button. If the message Start New Plant promps once configured the last unit, then do not pay attention or press any button and connect the PMS communication cables

- CONNECT ALL THE CABLES PMS COMMUNICATION CABLES WITH END RESISTORS ON BOTH SIDES OF THE
 COMMUNICATION BUS
- Follow next step on the display



LOAD



QAC TWINPOWER (MULTI GENSETS)

HOW TO CREATE A PLANT WITH 2 OR MORE QAC TWIN POWER



- G1 START NEW PLANT >> YES
- G1 RECEIVING APPLICATION Wait until dissapear.





Wait until it disappears

HOW TO CREATE A PLANT WITH 2 OR MORE QAC TWIN POWER





Wait until it disappears



• Repeat Step 6 on the rest of the units until adding all the gensets to the plant:



Wait until it disappears





HOW TO CHECK THE GENSETS HAS BEEN ADDED TO THE PLANT?



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0 (121)A 0 (121)A 0 (121)A 0 (121)A 0 (121)A 0 (121)A

HOW TO CHECK THE GENSETS HAS BEEN ADDED TO THE PLANT?



- Change one of the controllers from SEMI-AUTO to AUTO, and the rest of the controllers must change automatically to AUTO as well.
- If any of the controllers doesn't change to AUTO, it means it is not properly added to the plant. To solve it, it must be removed from the plant (removing procedure is indicated in the next pages) and add it again to the plant. Then set to SEMI-AUTO all the controllers of the plant, change to AUTO in one of them, and check that the rest of the controllers have changed now automatically to AUTO.



HOW TO REMOVE GENSETS FROM THE PLANT?

- All the steps are done from the HMI panel Qd1001.
- Qc4004 firmware should be 4.74.1 or newer.
- Qd1001 should be 1.2.0.2 or newer.
- This is only possible when plant is created with Easy Connect function.
- This example remove UNIT 2 G1 and UNIT 2 G2





It is mandatory to follow the next process to remove the gensets from the plant. If any other removal process is used, then problems will rise when trying to create a new plant in the future





HOW TO REMOVE GENSETS FROM THE PLANT?



SELECT SEMI-AUTO (ALL CONTROLLERS)





The following procedure explains how to remove all the gensets from a plant. If you want to remove only one, then apply the following instructions only to it.



HOW TO REMOVE GENSETS FROM THE PLANT?





During the process, some alarms and messages could promp in the touchscreen. If the message Receiving Application promps, do not pay attention or press any button, just wait the message is removed The alarms can be acknowledged. If the message DG Ready to be added or Start New Plant promps, just press the cancel button.





HOW TO REMOVE GENSETS FROM THE PLANT?













UNIT 2



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HOW TO REMOVE GENSETS FROM THE PLANT?







0 UL1(2) 0.00 FL1(H) 0 IL1(H) 0 IL2(H) 0 IL2(H) 0 FL1(H) 0 FL1(H) 0 O(000) 0.00 cm PH

FL1 (H) 0.00 FL1 (H) 0 FL2 (H) 0 FL2 (H) 0 FL3 (H) 0 O (H) (H) 0 O

HOW TO REMOVE GENSETS FROM THE PLANT?





During the process, some alarms and messages could promp in the touchscreen. The alarms can be acknowledged. If the message DG Ready to be added or Start New Plant promps, just press the cancel button.





HOW TO REMOVE GENSETS FROM THE PLANT?











UNIT 2







QAC TWINPOWER (MULTI GENSETS) HOW TO REMOVE GENSETS FROM THE PLANT?

• Repeat previous steps on the rest of the units.



