AFTER SALES PROCEDURE FOR CPS3/24-30
(Confidential Document which can't be share without CRISTEC authorization)

Failure detected on CPS3OEM/24-30:

1. Deteriorated transistor of the PFC: Q6/Q13
2. Auxiliary Power Supply deteriorated: R123/R114/R115/R116/U12 and sometimes the failure of PWM controller: U13

The simply replacement of those component is most of the time enough to fix those type of issue. (No other damage)

For those repairs, please follow the procedure below:

- Charger OFF (not powered)
  - Check PFC Transistor Q6/Q13 :
    - If about 0Ohm (or really less than 380kOhm) between G and S, means Q6/Q13 are dead
    - Replace Q6 and/or Q13 in this case
  - Powered up the Charger
    - If the charger startup : 3 leds turn ON et voltage is present on output it means that the charger is working
    - If the charger doesn't startup :
      - Check if Vaux voltage(12Vdc) is present between D22 cathode(+) and pin 2 of U12(-)
      - If Vaux = 12V it means that it's not a common issue, so send the charger back to us.
      - If Vaux = 0V so :
        - Unpowered the charger
          - Replace component R123/R114/R115/R116/U12
          - And also replace U13 (Preventive action)
        - Powered UP the charger again :
          - If the 3 LEDs on the top are ON and, you can measure the output voltage, so charger is ok.
          - If the charger doesn't startup, please, send it back to us

Note: Before each times you attempt to power UP the charger, you should measure the resistance of PWM transistor Q14/Q18 (about 415KOhms between G and S). (If the measure is about 0Ohm or really less than 415kOhm you should replace Q14 and Q18)

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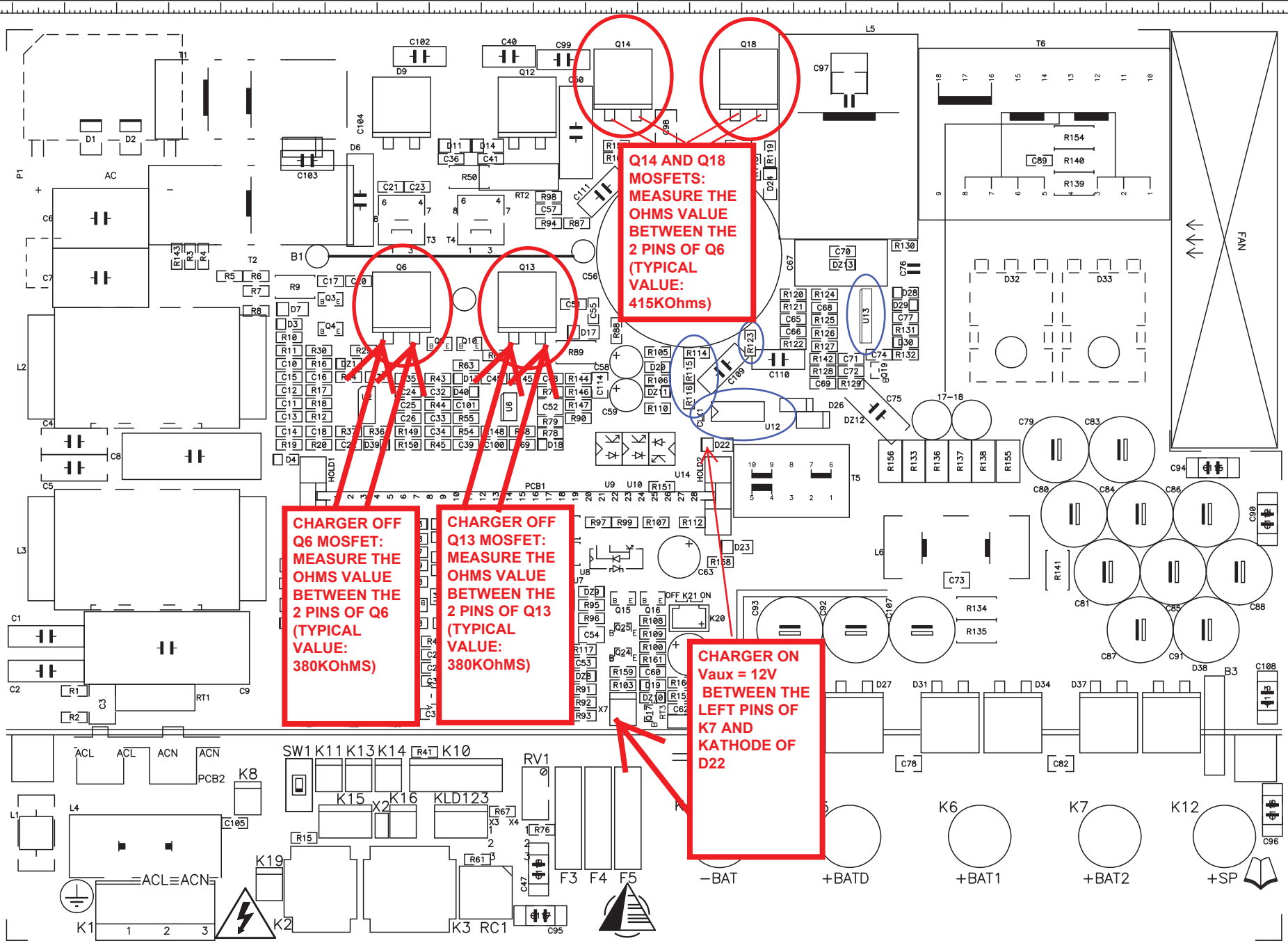
CPS3/24-30:

Part number	Type	Code
Q6 / Q13	MOSFET IPB60R099CP 650V 0.099R TO-263	30031353
Q14 / Q18	MOSFET SMD STB25NM60N D2PAK 650V.17R 20A	30031354
U13	I.C. L6599D HIGHVOLTAGE RESON.CONTROLLER	30032418
U12	I.C. TOP242-P PWM SWITCH PLASTIC DIP-8B	30032562
R123	RES.SMD(1206)1/4W 1% 10Ω	30030817
R114 / R115	RES.SMD(1206)1/4W 1% 680KΩ	30022809
R116	RES.SMD(1206)1/4W 1% 560KΩ	30022814



CRISTEC	Layer: SILK−SCREEN TOP PLANE	Title: CPS3−2M CDS3−2M RANGE M.B.	File: C1068−5	Date: 09.07.2009	Drawn by: C.B.D.
				Scale: 1:1	Checked: S.A. − F.F.