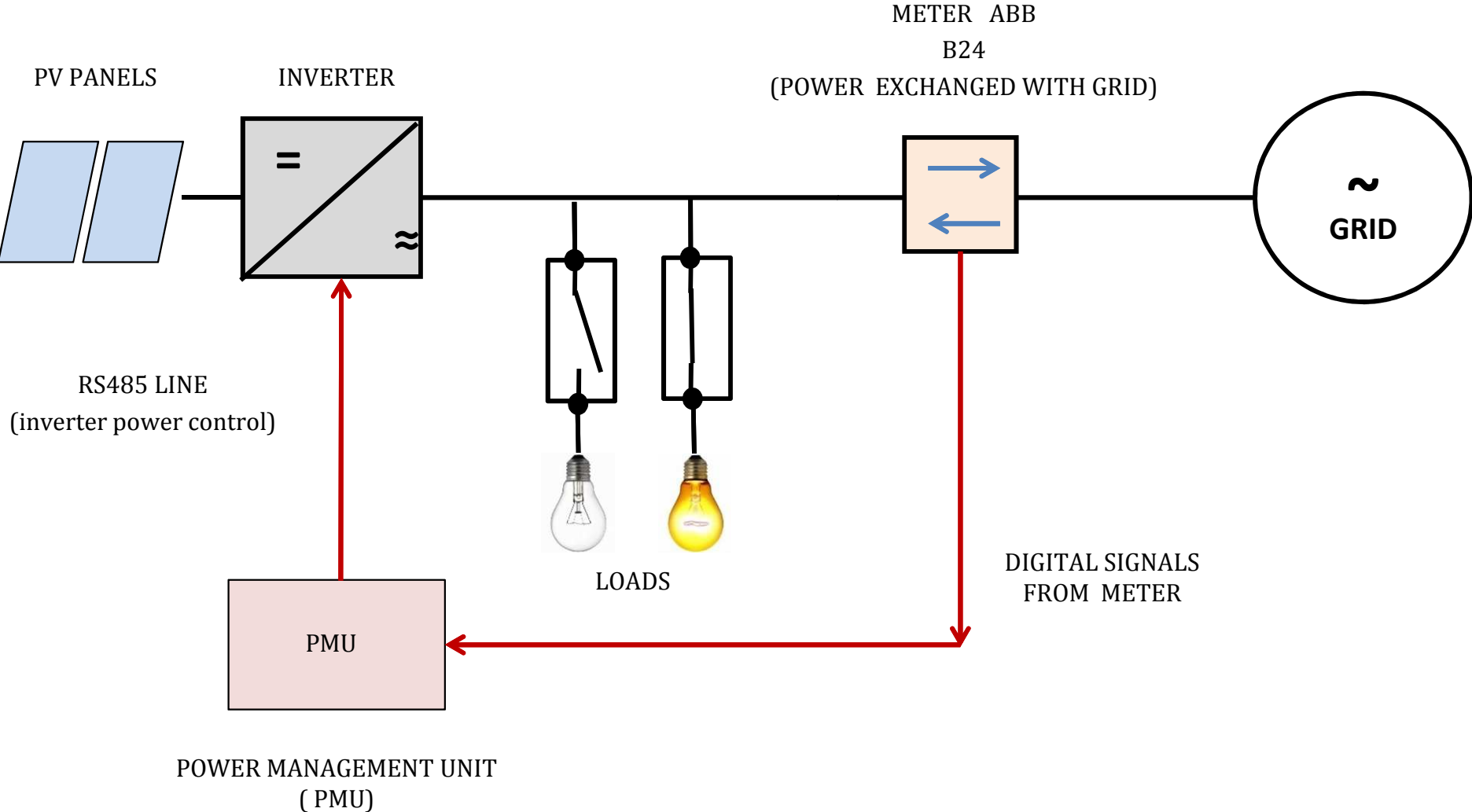




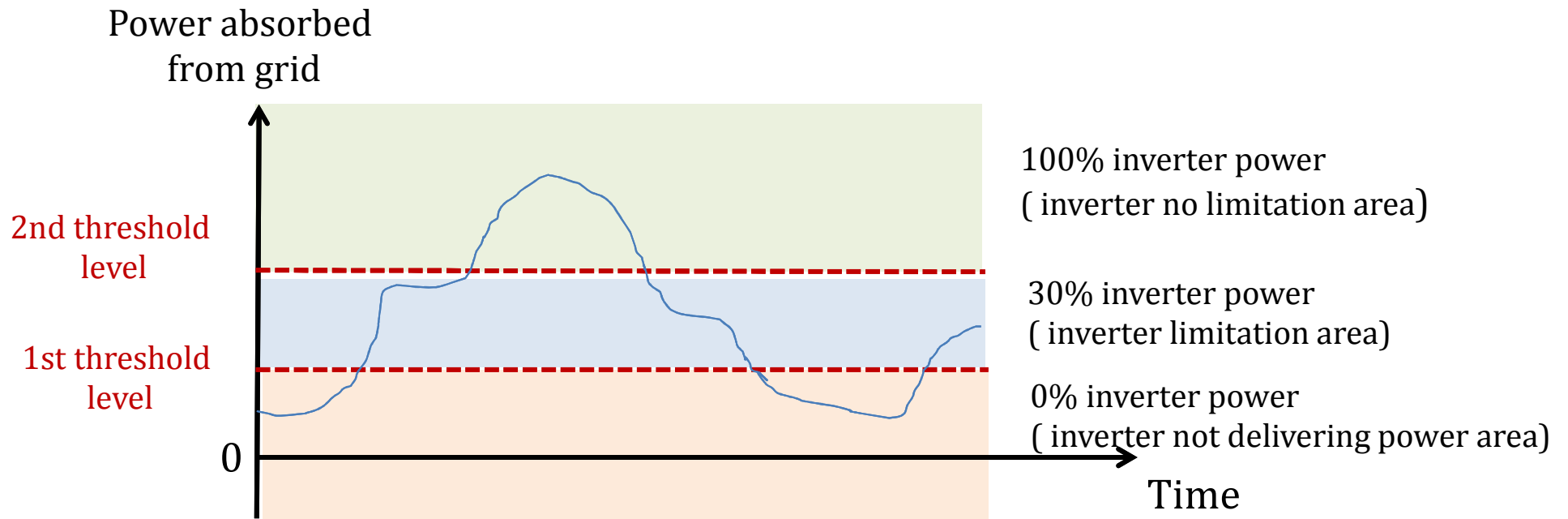
DMPC Solar

INVERTER POWER CONTROL TO AVOID INJECTION OF POWER INTO THE GRID (USING ABB METER AND PMU)

Functional blocks diagram (power control at 3 power levels)

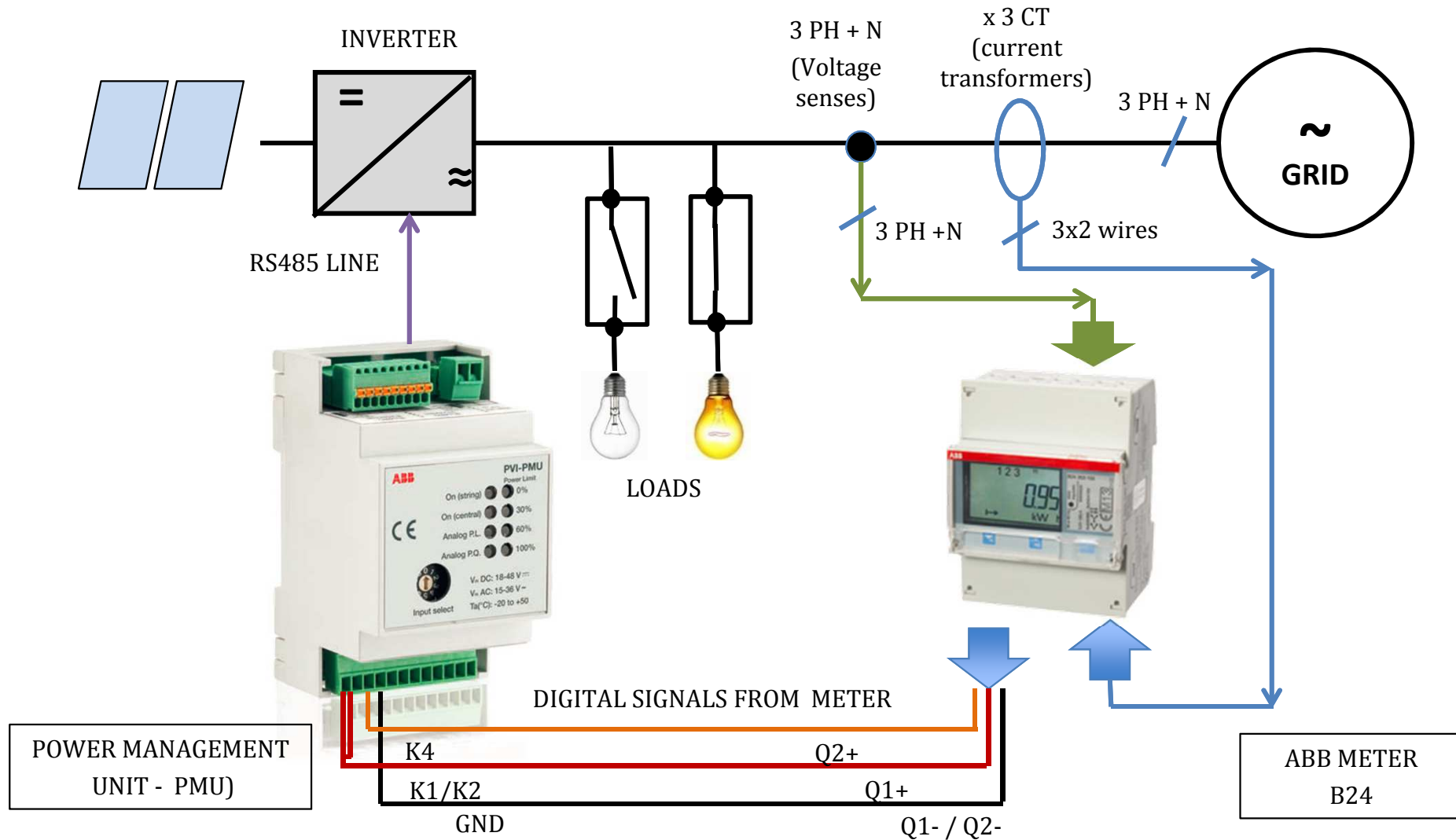


Functional description (power control at 3 power levels)



- The METER measures the power absorbed from grid .
- Two power threshold levels can be selected inside METER. When the thresholds are overcome ,the ABB METER closes 2 digital outputs.
- The 2 digital outputs are connected to the Power Management Unit (PMU) which controls the inverter output power via RS485 (Aurora protocol)
- Three Power levels can be imposed to the inverter:
 - 0% inverter power = the inverter does not deliver power
 - 30% inverter power = the inverter delivers, at maximum, 30% of the nominal power
 - 100% inverter power = the inverter can deliver the maximum power

Simplified cabling diagram (3 phases example)



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