

APPLICATION NOTE

Generator Integration

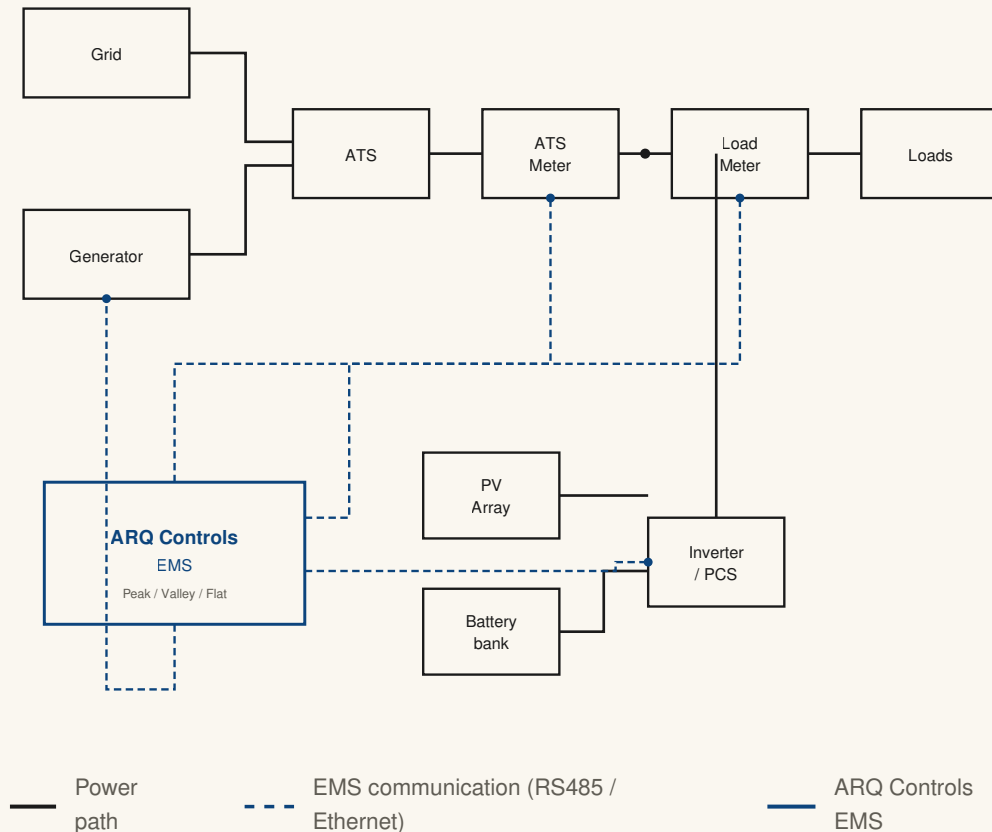
Reference wiring overview: PV, automatic transfer switch, metering, battery, and RS485 / Ethernet control.

ARQ CONTROLS · INDUSTRIAL ENERGY CONTROL

4–20 mA

System wiring overview

A single-line reference for a grid, generator, PV, and battery site coordinated by the ARQ Controls EMS. Power path in ink, EMS communication in navy (RS485 / Ethernet). Exact metering points and protection depend on the site.



How the EMS coordinates the site

- Meters at the transfer switch and load report import, export, and demand to the EMS in real time.
- The EMS starts and stops the generator on state of charge, demand, or manual override, and holds it within its Min / Max power window by charging or discharging the battery.
- PV and battery run through the inverter under Peak, Valley, or Flat mode to shave peaks and respect export limits.
- Soft ramping and a fallback path protect the site when generator feedback is unavailable.

FOR FURTHER ENQUIRIES

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