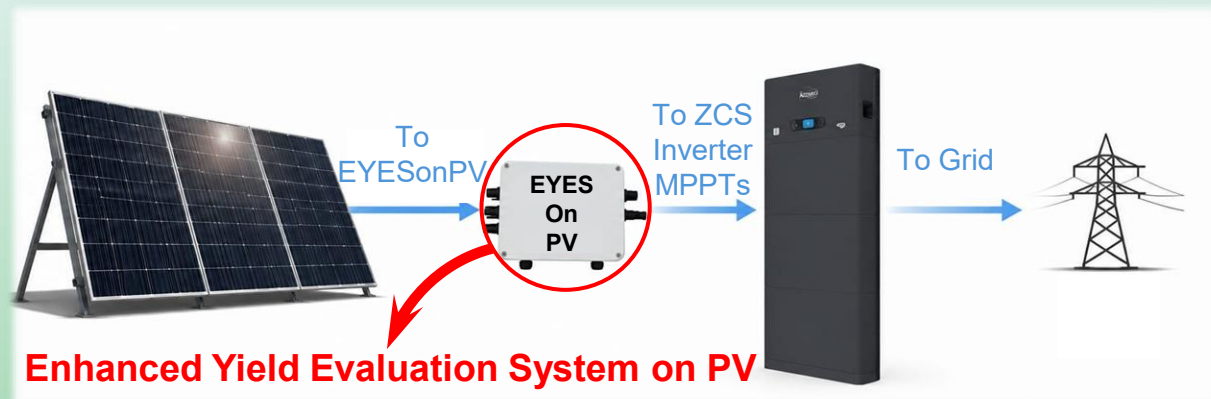


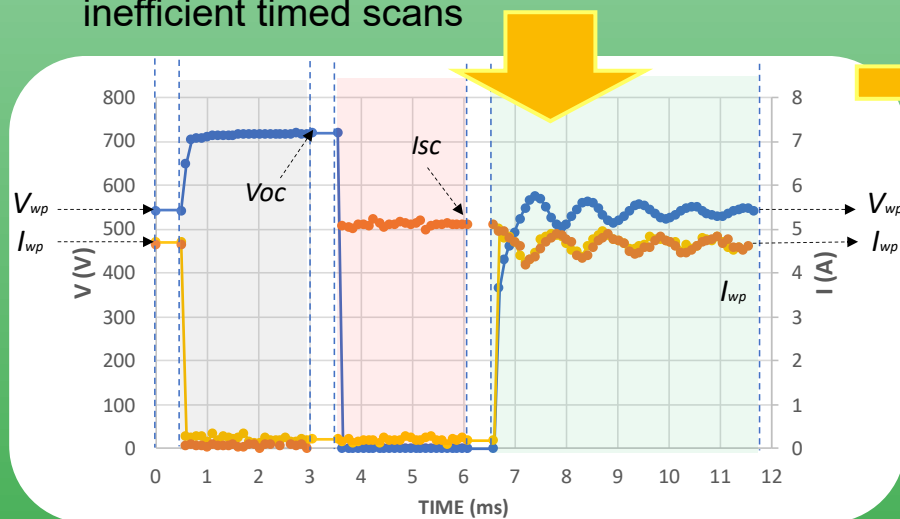
EYESonPV

Fast PV Diagnostics and Adaptive MPPT Optimization



Ultra-fast PV diagnostics with real-time insight into system health:

- Capture key electrical parameters (V_{oc} and I_{sc}) in **less than 10 ms**
- **Reconstruct the ideal I–V curve** using measured V_{oc} and I_{sc} together with module parameters to estimate the total power loss
- Enable real-time detection and precise localization of **mismatch, degradation, and faults**
- **Adaptive MPPT** that triggers I–V scans only when strictly necessary, minimizing losses by avoiding both local maximum power points or inefficient timed scans



Shutter Logic for fast V_{oc}/I_{sc} acquisition under real operating conditions, enabling **accurate measurements without perturbing energy production**

Continuous diagnostic and smarter MPPT without energy loss

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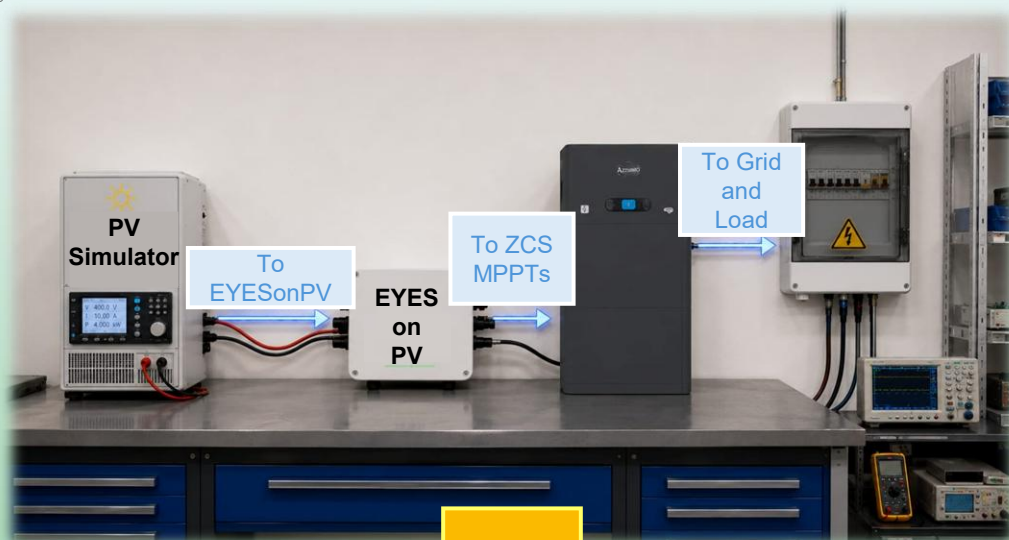
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Advanced supervision and analytics via a modular architecture:

SMART EYES Platform

EYEtoLight

Continuous diagnostics for real-time detection of mismatch, soiling, hot spots, degradation, and series resistance effects

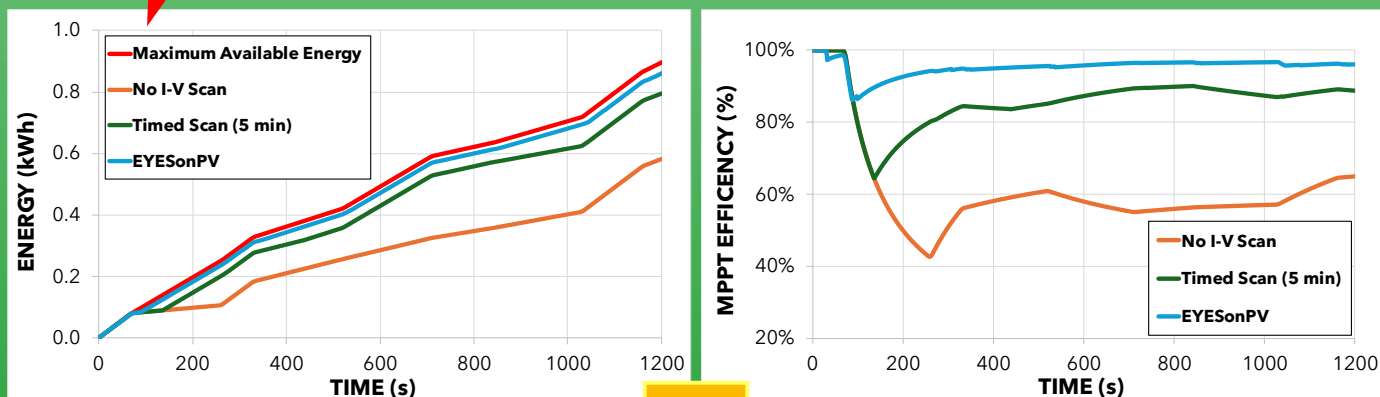


EYEtoEnergy

Weather-aware battery management to anticipate PV production peaks, reduce grid stress, and extend battery lifetime

EYEtoPower

Intelligent MPPT control and advanced inverter protection for optimized performance, enabling higher efficiency under strong mismatch conditions



A complete, smart solution for next-generation PV monitoring, control, and energy optimization