



derapi

O&M: One API, Every Device, Zero Headache

Derapi speeds the development and expansion of solar operations and maintenance, asset management, and monitoring solutions. Connect your application to Derapi's API platform and flow data from leading solar and battery brands into your product. Save time and resources by focusing on your core product features.

the challenge

For operations and maintenance (O&M) and solar software teams, integrating and maintaining multiple vendor systems can drain time, budget, and energy. Each new inverter, battery, or data source brings its own maze of portal logins (or confusing APIs), rate limits, and inconsistent data formats. Instead of focusing on innovation and customer value, teams get stuck managing brittle integrations and troubleshooting data quality issues. The result? Slower time-to-market, higher costs, and frustrated clients unable to enroll.

Common Pain Points

- **Integration bottlenecks:** Gaining access to each vendor's API is slow, complex, and diverts focus from core solution development.
- **Data inconsistencies:** Missing, ambiguous, and undocumented values make it difficult to trust vendor data.
- **Authorization headaches:** Acquiring and maintaining access credentials across multiple vendors creates unnecessary friction.
- **Rate-limit restrictions:** Vendor APIs throttle requests, adding another layer of complexity to integration workflows.
- **No unified data standard:** Each vendor structures data differently, varying units, time zones, and granularity, forcing developers into endless trial-and-error.



Derapi provides a single, straightforward API that works across leading brands, allowing new vendors to be integrated in days, not months.

the solution

Derapi simplifies O&M vendor access by consolidating a complex web of solar and battery data sources into a single, clean, and reliable stream. With a single API connection, O&M software developers can access harmonized, high-quality data from the industry's leading inverter and battery brands, saving months of engineering time and unlocking faster, smarter decision-making. Derapi handles data validation, authorization, and performance optimization so your team can focus on what matters most: maximizing system uptime and customer service.

Key Highlights

- **Comprehensive system data:** Access rich metadata, including site location, nameplate capacity, BESS capacity, state of charge, PTO date, and connectivity status.
- **Real-time insights:** Get the latest readings for voltage, current, and power (AC/DC), plus detailed state-of-charge and power data for each BESS unit.
- **Actionable analytics:** View interval data for energy production, charge/discharge cycles, site demand, and grid imports, all normalized for easy analysis.
- **Automated anomaly detection:** Identify and flag out-of-bound values instantly to keep operations running smoothly.
- **Proactive alerts:** Receive detailed inverter alert information for faster troubleshooting and reduced downtime.
- **Effortless authorization:** Derapi manages secure system authorization across vendors, no more repetitive credential maintenance.
- **Flexible data delivery:** Pull data on demand through Derapi's APIs or receive automatic updates via webhooks.
- **Expanding device ecosystem:** Connect seamlessly with Tesla, Solis, SolarEdge, Enphase, FranklinWH, EG4, FoxESS, and SMA, and if you don't see your brand, we'll add it.

the benefits

By integrating once with Derapi, O&M teams can reduce development timelines by up to 80%, cut integration costs by tens of thousands, and accelerate deployment of new solar and battery vendors from months to days. With harmonized, trustworthy data fueling your monitoring and analytics tools, your team can shift from maintenance mode to growth mode, unlocking faster insights, improved uptime, and scalable efficiency. Derapi turns integration complexity into operational intelligence, so you can focus on powering the clean energy future.

Why Choose Derapi

- **Faster integrations, faster results:** Complete your first vendor integration in days, not weeks, and connect future vendors with almost zero extra engineering effort.
- **Reliable, ready-to-use data:** Derapi automatically classifies and cleans data, from missing to zero values, creating clear, well-documented datasets your O&M tools can trust.
- **Simplified Authorization:** Derapi streamlines secure acquisition and management of vendor credentials, and ensures secrets never expire.
- **Data your way:** Access a single source of harmonized, high-quality data at the granularity and frequency your application needs, no more confusing or ambiguous values.

Schedule an appointment today | sales@derapi.com