

NextWave Core DATASHEET

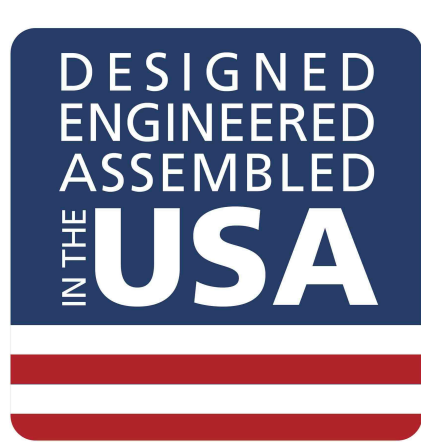


Data Acquisition Solution

NextWave Energy Monitoring is a turnkey renewable energy performance monitoring solution designed by power quality & network engineers to deliver substantial energy vitals and system analytics to solar asset owners/managers. NextWave's turnkey Data Acquisition System ("DAS") extends a customer-first expectation focused on state-of-the-art manufacturing at our California-based ISO-9001 facility, quality workmanship & hardware, and market-leading customer support and Infield Network Engineering from our US - Based teams to streamline system energization and DAS retrofit needs.



Turnkey Solution



SOFTWARE

- Data granularity with ranges including 1 min / 5 min / 15 min / 1hr / 1 day / 1 week / 1 month / 1 year / Lifetime
- Cellular or Ethernet connectivity
- Full Support + Integration with NWEM PVPulse™
- Sun-Spec Alliance Certified
- VPN Access / Port Forwarding capabilities for secured remote access
- Automated Report Generation & Distribution
- Diagnostics-Level Charting and Metrics
- Intuitive & Flexible UX/UI Solution

HARDWARE

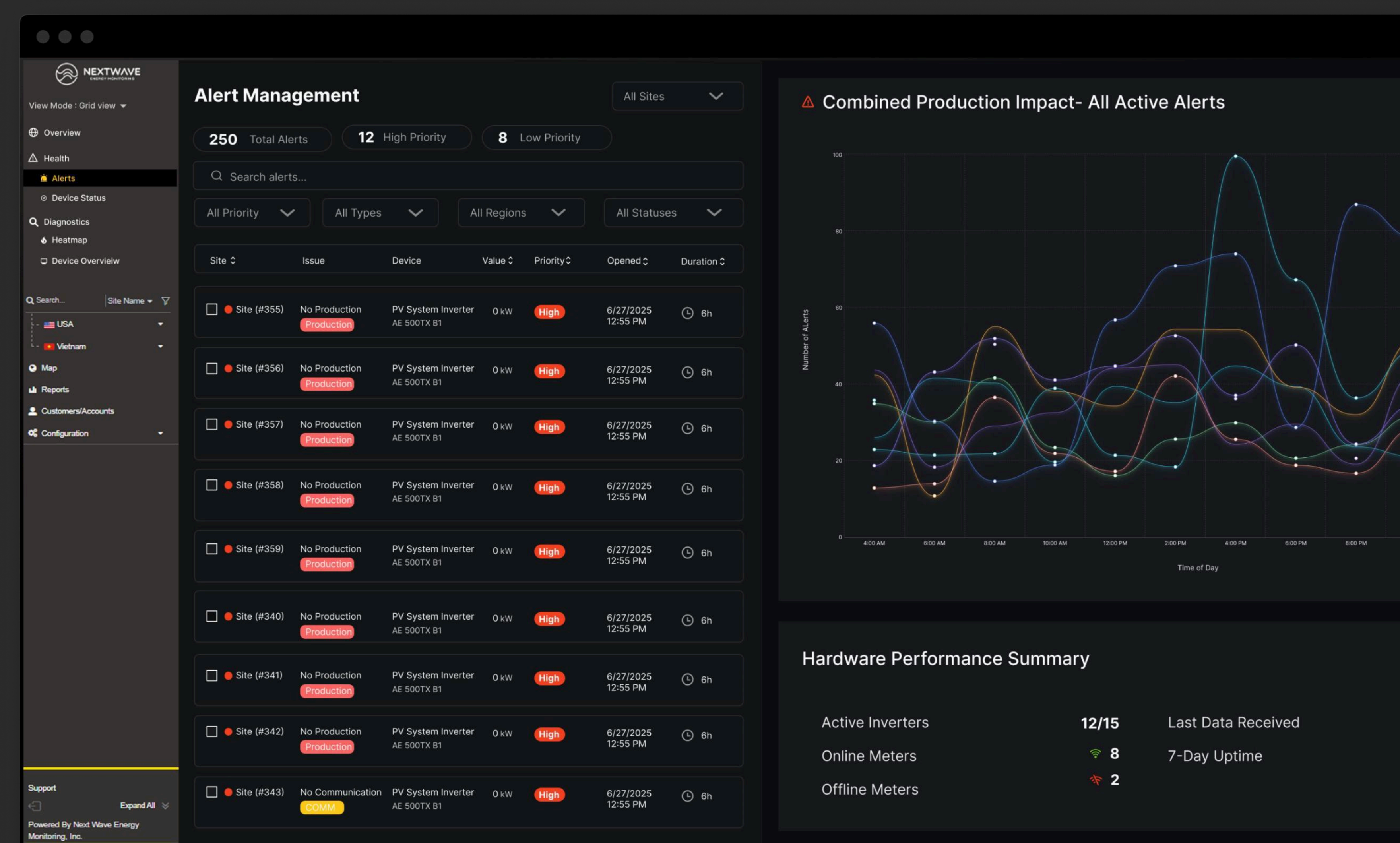
- Compliant with IRA Domestic Content Requirements
- Next Wave Industrial Datalogger
- Revenue-grade Energy Meter
- Metal NEMA4 Weatherproof Enclosure
- 4G/LTE Industrial-Grade Cell Modem (requires a cellular plan)
- Supplemental Battery + UPS Options
- Modbus Communication via RS-485 or TCP
- 8-year Material Warranty Included
- Non-Proprietary, Off-the-Shelf Components

NextWave PVPulse™ Performance Monitoring

NextWave Energy Monitoring's **PVPulse™** is a solar performance monitoring and data analytics platform with a mission to simplify the high volume of data and focus on meaningful analytics which will lead to root-cause and will reduce the Mean Time to Repair (MTTR).

PVPulse™ intuitive DAS platform is geared towards commercial & industrial, enterprise/portfolio, and utility-scale applications, offering anomaly detection, performance trending, plant or fleet-level interface/data, and troubleshooting capabilities while aggregating data from all interactive equipment and translating it into meaningful power and energy vitals for both highly technical and non-technical end-users.

NextWave Energy Monitoring is certified & compliant with requirements of ISO/IEC 27001:2022 Information Security Management Systems.



ASSEMBLY	Operating Humidity	10% to 90% non-condensing
	Operating Temperature	-40°F to 122°F / -40°C to 50°C
	Operating Altitude	Maximum 1000m or 3280ft above sea level
	Weight	18lbs / 8.16kg
	Line Input Voltage Range	200 – 500 VAC ± 10%
	Frequency	50Hz – 60Hz ± 1%
	Rated Insulation	V(AC/DC) 1000VAC / 1500VDC
	Overvoltage Category	III
	Standards / Compliance	UL Listed 508A Type 4, RoHs Compliant, cUL Listed per CSA C22.2 No. 94.1, 94.2, 14 / IEC 62208 / ISO9001 (2008)
ENCLOSURE	Enclosure Dimensions	12" x 12" x 8" / 30.5cm x 30.5cm x 20.3cm
	Enclosure Inner Depth	8" / 20.3cm
	Enclosure Rating	Metal NEMA4
	Base Material	Metal
	Standards / Compliance	EN 62208, UL 508A / E189312
	Degrees of Protection	IP66/IP67
	Flammability Rating	UL 746C 5 inch flame test
DATALOGGER	Interval Recording	1 to 60 minutes, user selectable (default 15 minutes)
	Processor / OS / Memory	i.MX 6UltraLite / Linux 4.x / x512 MB RAM
	Storage	4GB NOR Flash
	Devices Supported	Up to 64 connected Modbus RTU enabled devices
	Primary Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMPTrap
	Serial Ports	2 x RS-485 Modbus, supports 32 external devices per port
	LAN	2 x RJ45 10/100 Ethernet, full half duplex, auto polarity
	Security / Compliance	SSL & TLS / FCC CFR 47 Part 15, Class A, EN 6100, EN 61326, CE, UL61010 Recognized
POWER SUPPLY	AC Input Voltage Range	200 – 500 VAC ± 10%
	Input Frequency	47Hz – 63Hz Power
	Inrush Current (115/230VAC)	25 / 50A Supply
	Power Factor	Meets EN6100-3-2, EN61000-3-3
	Line & Load Regulation	1%
	Standards / Compliance	UL508, UL1310 Class 2, IEC/UL/CSA/EN62368-1, EN60950-1, CE Mark
SURGE PROTECTION DEVICE (SPD)	Weight	25.86 g
	Dimensions (W x H x D)	6.2 x 92 x 69.5 mm
	Nominal Voltage	UN 24 VDC
	Material	PBT Max.
	Continuous Voltage	UC 30 VDC 21 VAC
	Rated Current	10 A (60°C)