

Extensible artificial intelligence energy management for battery energy storage and hybrid power systems. Fully flexible, precision programming delivers safe, reliable control, and optimization with rapid response to changing conditions in real-time.

FLEXIBLE, CUSTOMIZED CONTROLS FOR YOUR PEACE OF MIND

Responds Quickly

Prioritized operating modes with sub-second response to variations in real or reactive power, voltage, and frequency mean a quick response to your most pressing needs.

Adapts Readily

Configurable parameters, constraints, and settings and a commitment to open standardsbased communications ensure the systems can meet your specifications in AC and DC coupled applications.

Delivers Safely & Reliably

Built-in features - maintenance mode, three-tier alarm system, failsafe shutdown – ensures personnel, the grid, and the system are safe.

- Over thirty operating modes (prioritized by system owners) targeting both real and reactive power use cases.
- Customized device configuration provides extensive monitoring capabilities of system components (e.g., PCS and battery banks), local power meters, relays, switches, etc.
- Seamless schedule setting reduces the need for operators to set operating modes constantly.
- Multiple means of control (local/remote/automatic) with configurable privileges ensuring the right level of access for every stakeholder hosted on-premise or in the cloud or through both as a hybrid solution.
- Communication between internal components using Modbus and external communication using DNP3 compliant with open standards specifications MESA and SunSpec.
- Warranty tracking with history and charting of battery performance compared to the manufacturer's warranty limits. State of charge constraint engine maintains a constant dischargeable capacity and energy over system life, ensuring contract compliance.
- Touchscreen, human-machine interface for improved ease of use and effectiveness of field operations.
- Configurable alarms for all system components.
- An imbedded performance analysis module that allows system operators to create custom key performance indicators, benchmarks, and visualizations.



OPTIMIZING VALUE ACROSS THE POWER AND ENERGY APPLICATION SPECTRUM NEW SYSTEMS AND RETROFITS

	APPLICATION	USE CASES	DG-IC OPERATING MODES						
POWER	Voltage Regulation	Renewable Power IntegrationRemote community support	 Voltage Smoothing Dynamic Volt/VAr Dynamic Volt/Watt 						
	Frequency Regulation	Ancillary servicesContingency reserves	 Automatic Generation Control (AGC) Frequency/Watt Spinning Reserves 						
	Islanding	Outage ManagementNon-wires Alternatives	SOC Management						
	Solar + Storage	Power FirmingEnergy Shifting	Generation FollowingESS Real Power						
	Peak Management	Demand Charge ManagementPeak Shaving	Demand Charge ManagementReal Power Response						
ENERGY	Energy Arbitrage	Energy Market Participation	ESS Real Power						

INTUITIVE, SIMPLE, COHERENT INTERFACES SEAMLESS ADOPTION & ERROR PREVENTION

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	Health									✓ Priority 3	•	5/23/2021, 1:55:40.		First Smoke			5/23/2021, 1:55:40	
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At Doosan GridTech[®], we believe that enduring economic growth and environmental healing start with a resilient, low-carbon power grid. We are a multidisciplined team of power system engineers, software developers, and turnkey energy storage specialists. We help utility-scale power producers evaluate, procure, integrate, control, and optimize energy storage, solar power, and other renewable power resources. Our battery storage experts in Seattle, Melbourne, and Seoul have designed and built dozens of installations in the Americas and Asian-Pacific regions – representing over 800 MWh of capacity.