

NEP Expanded RSD Solution

Inverters – "NEPTUNE" Platform

RSD Ready C&I inverters

Data, Communications – "Galaxy" Solutions

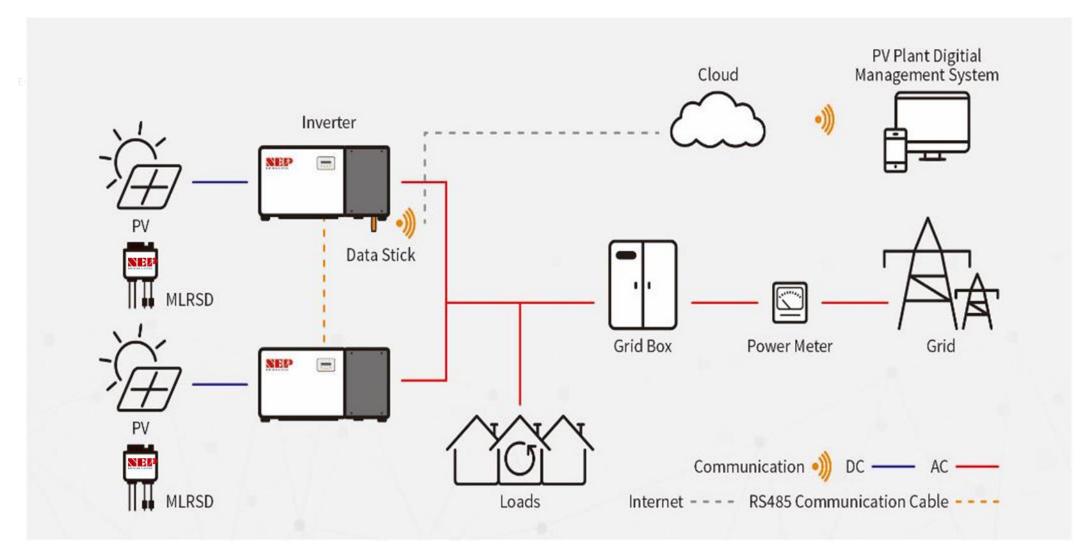
Hardware

Integration

Smart phone and Web data

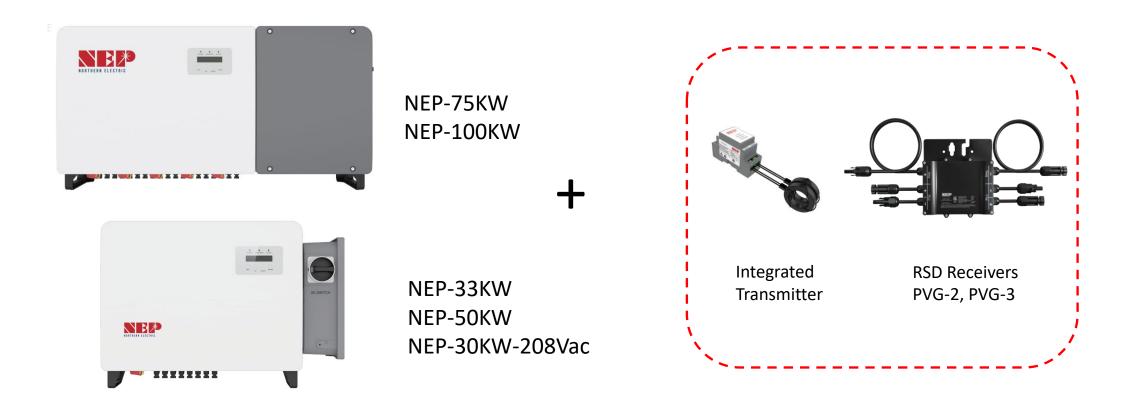


Complete RSD + Inverter + Data Solution... All from NEP





Inverters for any and all C&I Rooftops



- Elegant wire-box integration of NEP transmitter
- NEP Gateway inside wire-box
- No supplemental RSD related enclosures necessary
- NEP warranty wrap



NEPTUNE 75KW, 100KW

Flexible, Efficient

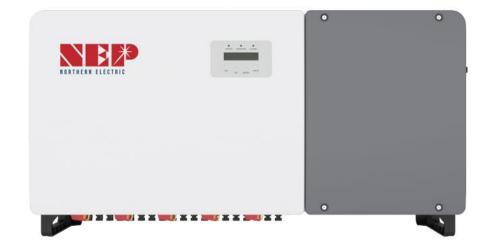
High Power level, in one unit – up to 150kWdc 10 MPPT's per 100kW 8 MPPT's per 75kW Maximum efficiency 98.8% (CEC efficiency 98.3%) Up to 150% DC/AC ratio 32A Max input current for high power modules

Smart

Intelligent string monitoring, smart I-V curve scan Remote firmware upgrade with simple operation

Global Inverter Leader Partner with NEP

Solis, #3 world wide





NEPTUNE 75KW, 100KW

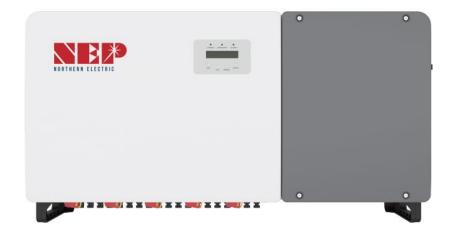
Tough and Safe

Type 4X, C5 Anti-Corrosion Level Built-in PID recovery for better module performance AFCI protection, proactively reduces fire risk Globally recognized component brands for longer life

Economical

DC side supports "Y" connector Support aluminum wire to reduce cost Approx. 3.3 Cents/Wdc, DDP NEP USA NEP warehouse







NEP-33KW NEP-50KW NEP-30kW-208Vac

Similar Features, compared to 75/100kW Models

High Efficiency

6-8 MPPT's

UL1741-SB etc.

Fully integrated NEP RSD Transmitter

Integrated Data Gateway

Integrated optional Cellular connectivity

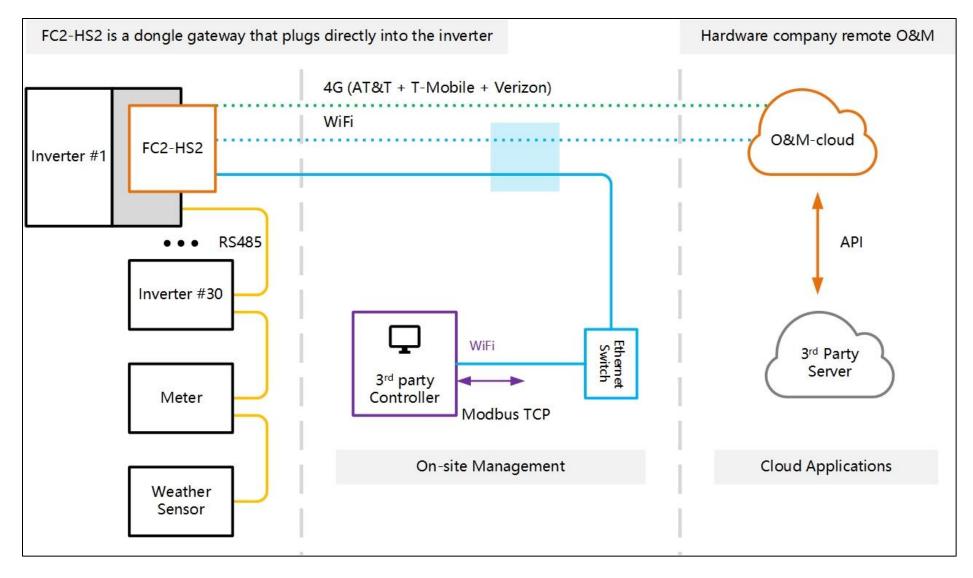
High power, 30kW with 208Vac output







"Galaxy" Data, Communications Solution – (non-RSD example)

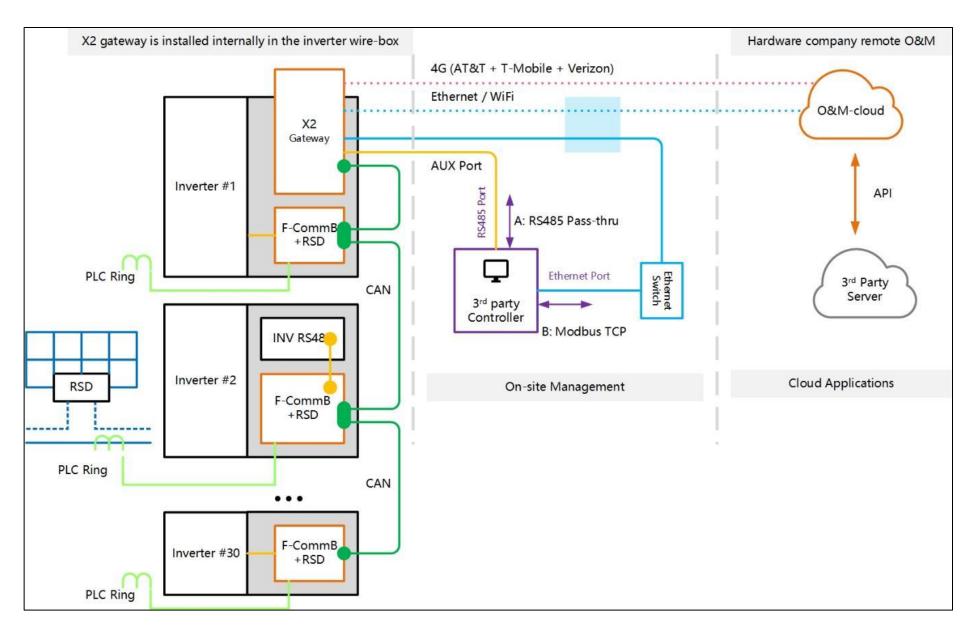


The "Smart Link" function of the APP allows users to automatically match complex hardware scenarios with just one click.



^{*} Architecture example with no RSD functions

"Galaxy" Data communications - Rapid Shutdown Architecture



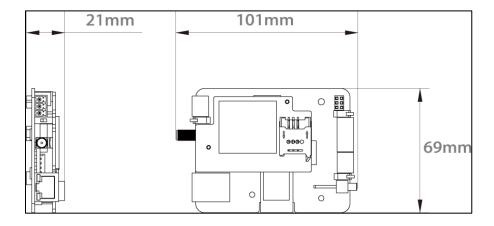
Gateway + Comm Board

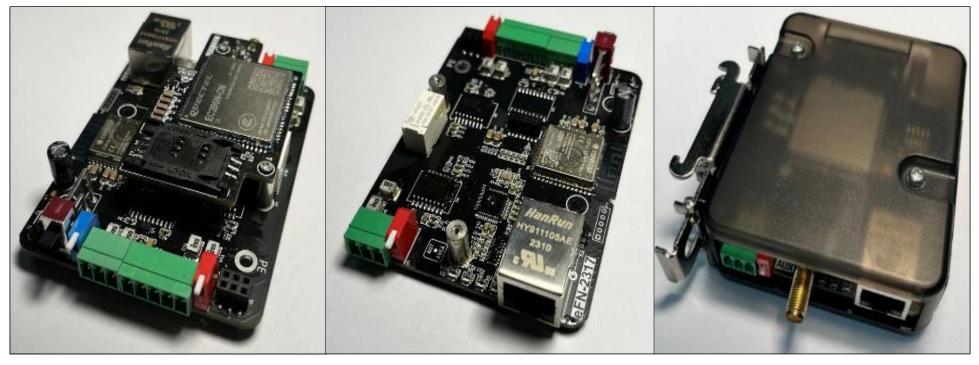
Inside inverter wire-box



"Galaxy" Data hardware – Field integrated in NEPTUNE wire-boxes

- Gateway communications boards
- High-performance response to real-time control of large sites
- Automated inverter commissioning
- Energy production management
- Smart Panel Level Monitoring
- Optional Cellular (wifi, Ethernet standard)
- RSD and Inverter data





Example shown "Maxi" assembly For 75/100kW models

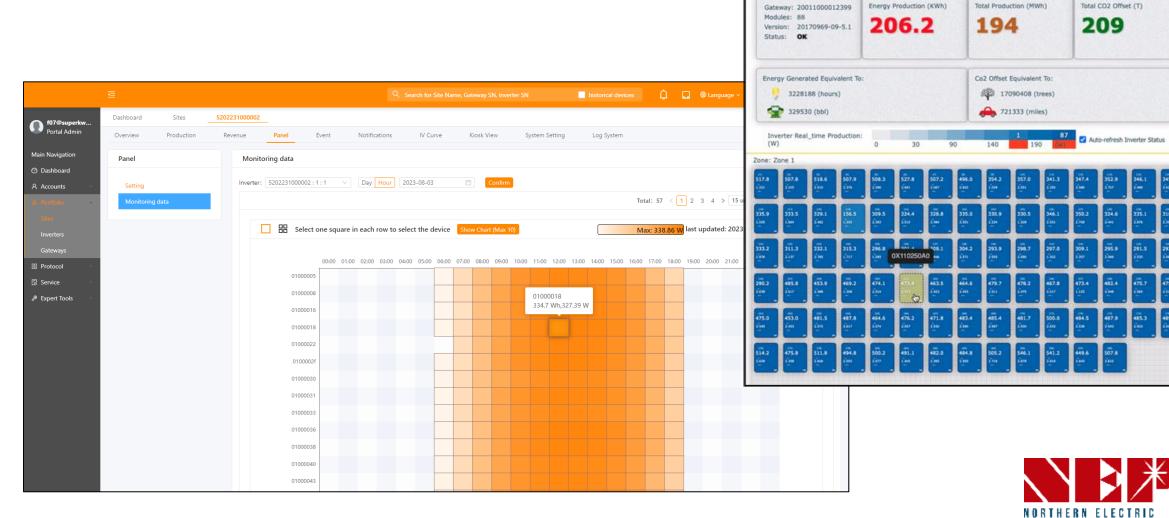


With Cellular Gateway

option for DAS box installation

"Galaxy" Data – Web Portal for Inverter and RSD Device Data

- Inverter performance data
- PV Module data
- RSD Device data



MacFit360 Main: 140kW Nassau, The Bahamas

Last update 2023-08-18 15:3

Overview Energy Production Weather & Map Report Alert Layout

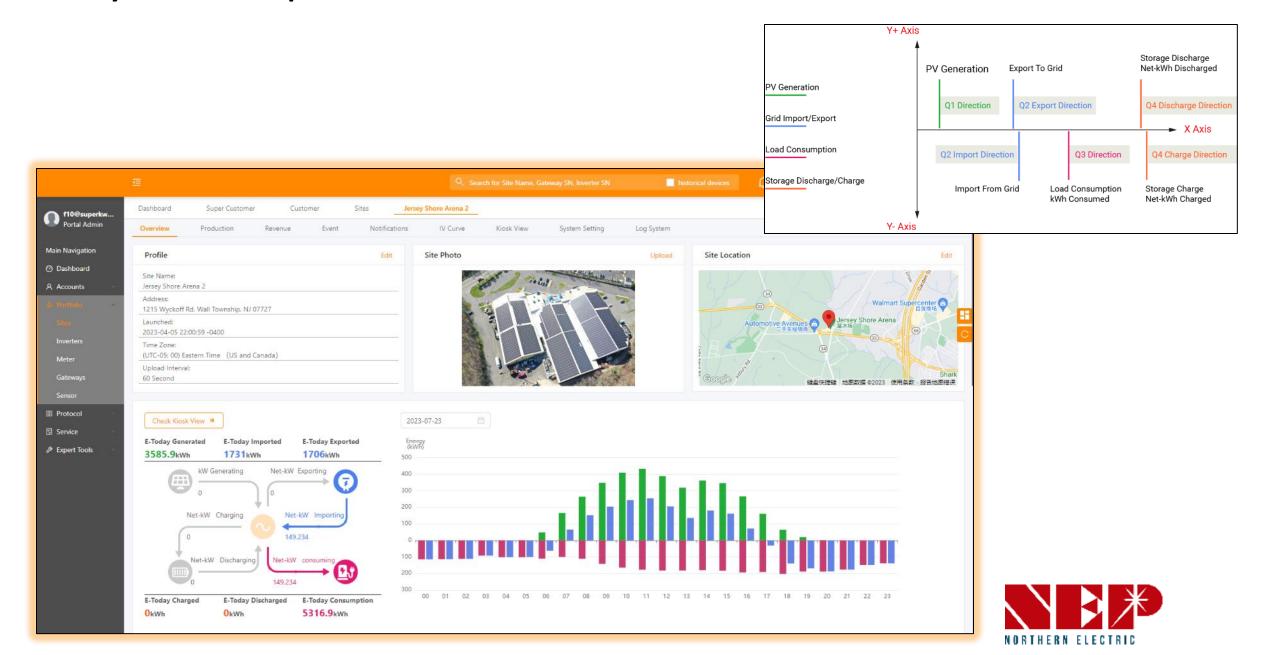
"Galaxy" Data – Smart phone App for commissioning and mobile data



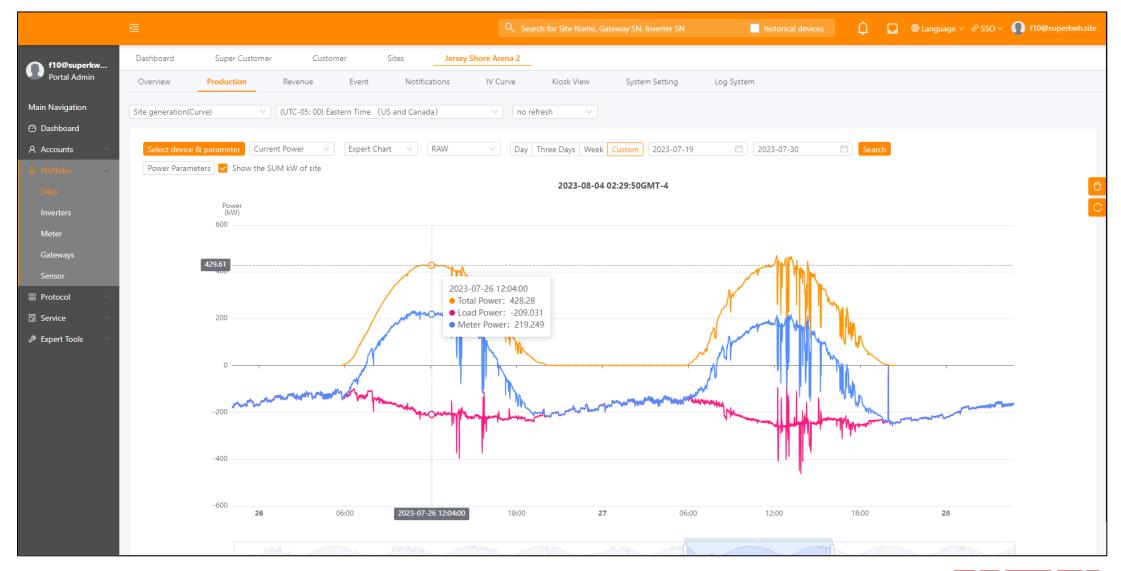




"Galaxy" Data Example



"Galaxy" Data Example





Why? Why NEPTUNE and Galaxy Solutions for your C&I Rooftop?

Lower risk... Complete Solution from NEP

Warranty wrap for total solution

Elegant integration of hardware and data communications

Smart, efficient, less labor, fewer parts/connections

Ideal Product range for any C&I roof

Perfect power increments; 33, 50, 75, 100kW Powerful 208Vac, 30kW

Confident Commissioning

Granular, PV level data visibility RSD function confirmation IV Curve trace testing setting Thermal auto-RSD

Performance and Safety Assurance

Know for sure that our RSD is working correctly Site level data for efficient diagnostics, service action

