

RAPID SHUTDOWN, PLUS THERMAL SHUTDOWN SAFETY

STOUGHTON NEP RSD PROJECT

LOCATION

Stoughton, MA



The CPS inverter with NEP rapid shutdown gives installers a reliable solution without a steep learning curve.

Tom Wu
Invaleon Solar Technologies

Invaleon Solar Technologies started work on a solar project at O.H. Burg’s office-industrial mixed-use facility in 2018. Due to a lengthy development and interconnection process, Massachusetts enforcement of the NEC 690.12 rapid shutdown requirements took effect in the midst of the project lifecycle.

The code enforcement, anticipated by Invaleon, created an opportunity to verify the reliability of the Northern Electric & Power (NEP) rapid-shutdown device that integrates with CPS commercial string inverters. Invaleon expects to wrap commissioning in September 2020.



TYPE

Rooftop solar

POWER OUTPUT

121.68 kW_{DC}

CPS PRODUCTS USED



2 - 50 kW with NEP 4:1 RSD devices integrated



FlexOM Gateway

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CHALLENGE

NEC 690.12 enforcement in Massachusetts put many commercial projects in jeopardy. The choice: bring inverter systems into compliance on the fly or restart the interconnection process with new equipment. The market faced a shortage of rapid shutdown devices. But going to the back of the queue was even riskier. Prolonged project delays can drive tax equity partners away.

SOLUTION

Taking a patented rapid shutdown device backed by NEP's product development track record and expertise and integrating it with CPS inverters made it possible for the Staughton NEP Pilot Project to move forward. Verifying the reliability of NEP rapid shutdown with CPS inverters also helps address a gap in the commercial rooftop solar market.



What's unique about the CPS inverter with NEP rapid shutdown is that it's not unique. It is not taking installers, engineers or designers out of their comfort zone. For installers already on the rooftop, this is something they're accustomed to. They're going from one box to another box.



CPS America, a subsidiary of Chint Electric, is a smart energy solution provider focused on value and performance for our customers. With over 85,000 PV inverters in the U.S. and an exceptional engineering and service team based in Texas, CPS America is ready to support your next smart energy project.