The Federal Signal Solar option provides an all inclusive solar powering option for all outdoor sirens. Solar powering of batteries is an efficient and economical method of powering remote sirens, alerting or control equipment. Solar powering can be engineered for any application. Applications include but are not limited to remote tsunami sirens, muster stations and tornado sirens. The PVS220W-24 and PVS220W-48 provide 220W of power for charging of batteries in 24 or 48VDC applications. Both systems are equipped with solar regulators for accurate control, protection and monitoring of the solar panels. Both kits utilize four 55W highly efficient solar panels, each with junction boxes to allow ease of wiring. The mounting hardware is aluminum for light weight and high strength, able to withstand wind loads up to 170 mph. Thirty feet (30’) of cable is provided to allow wiring from the panels to the battery cabinet. The solar regulators support gel, sealed or flooded batteries with temperature compensation to extend battery life and improve system performance. Federal Signal will determine the proper direction and tilt for each solar application based on location. Gel batteries are recommended for solar applications.

Solar Regulator Protection for:
- Short-circuit — solar and load
- Overload — solar and load
- Reverse polarity
- Reverse current at night
- High voltage disconnect
- High temperature disconnect

Lightning and transient surge protection
- Loads protected from voltage spikes
- Automatic recovery with all protections

Solar Panel Features:
- Impact resistant surface
- Weather resistant junction box
- State of the art design for long life in severe environmental conditions

Solution Features
- Enables remote / unwired deployment of sirens
- Solar power provides continuous charging of batteries
- Radio connectivity for two-way activation and control
- Eliminates expensive trenching of power to remote sites
- Supports mechanical or electronic sirens
- Allows 25 to 60º of tilt for solar optimization
- 24 or 48VDC operation
- Wind loads up to 170 mph