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# TSRG METER SOCKET ADAPTER SUBGROUP

## PRESENTERS

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## 01 Product Class Overview

What they are, how they work, features and benefits.

## 02 Current MSA Approval Landscape

States/utilities where MSA approvals are approved or pending

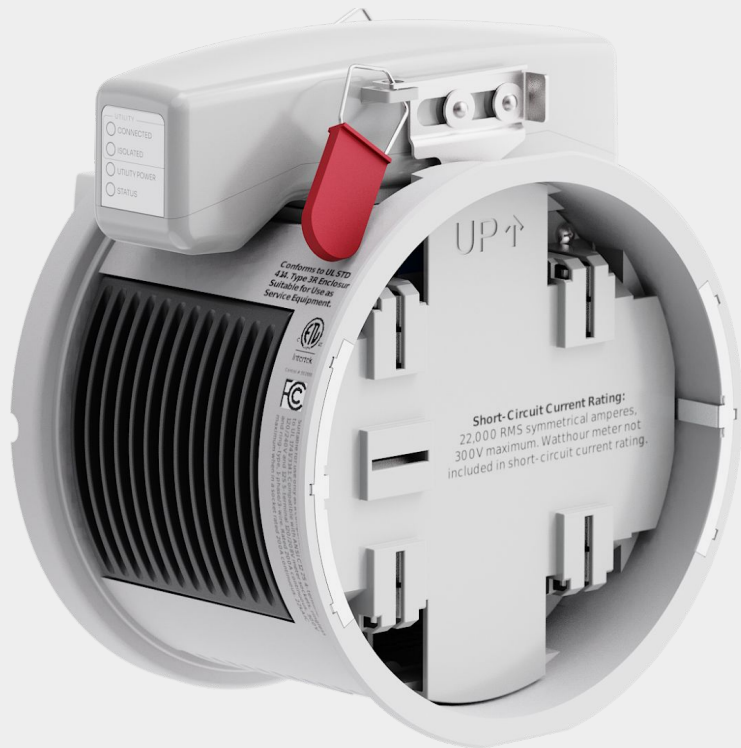
## 03 Best Practices and Lessons Learned

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# ConnectDER Products Overview

# 01

# ConnectDER Applications



ConnectDER has three product lines, each of which supports a different end-use application.

- Our IslandDER (pictured) facilitates whole-house and partial backup power behind the meter for a host of BESS providers.
- Our EV MSA serves as a power source for a L2 EVSE, and will pause charging if service ampacity is at risk of being exceeded.
- Our Solar MSA is a safe, reliable, and elegant alternative to supply side connections on PV systems up to 15kW.

# What is a Solar MSA?

- ⚡ Designed to simplify connection of solar PV systems to the home without the need for service upgrades
- ⚡ Built in OCPD protects the home & service from potential overload
- ⚡ Applicability to other 120/240V sources or loads
- ⚡ Designed for ANSI from 2S/12S and up to 200 Amp services

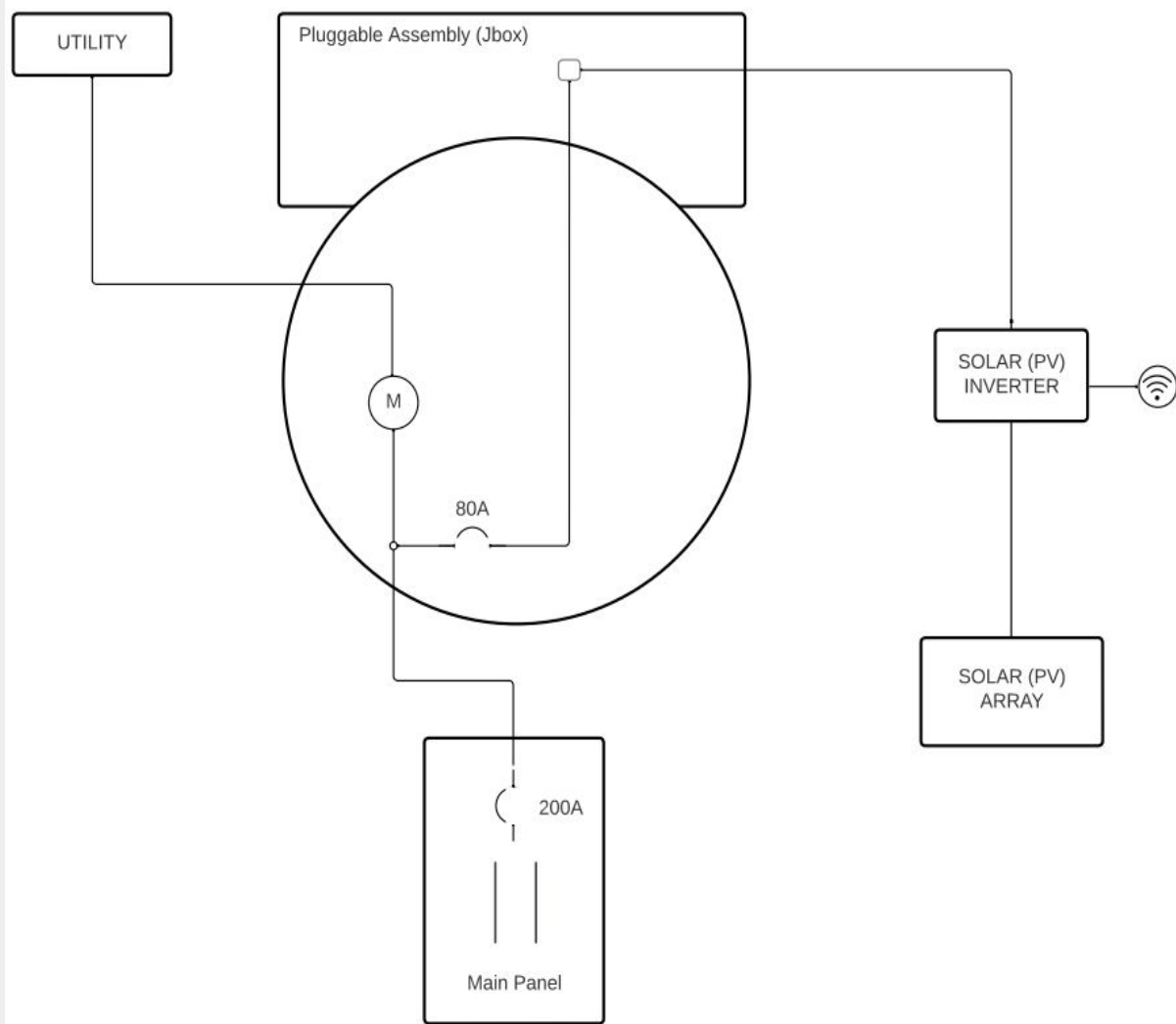




## Solar MSA V5.2

### Key Features

- Rated for use in up to 200 Amp services
- 15-80 Amp circuit breaker options
- Up to 15.36 kW PV Solar
- 22k AIC / AIR rating
- 2S / 12S meter forms and sockets



# What is an EV MSA?

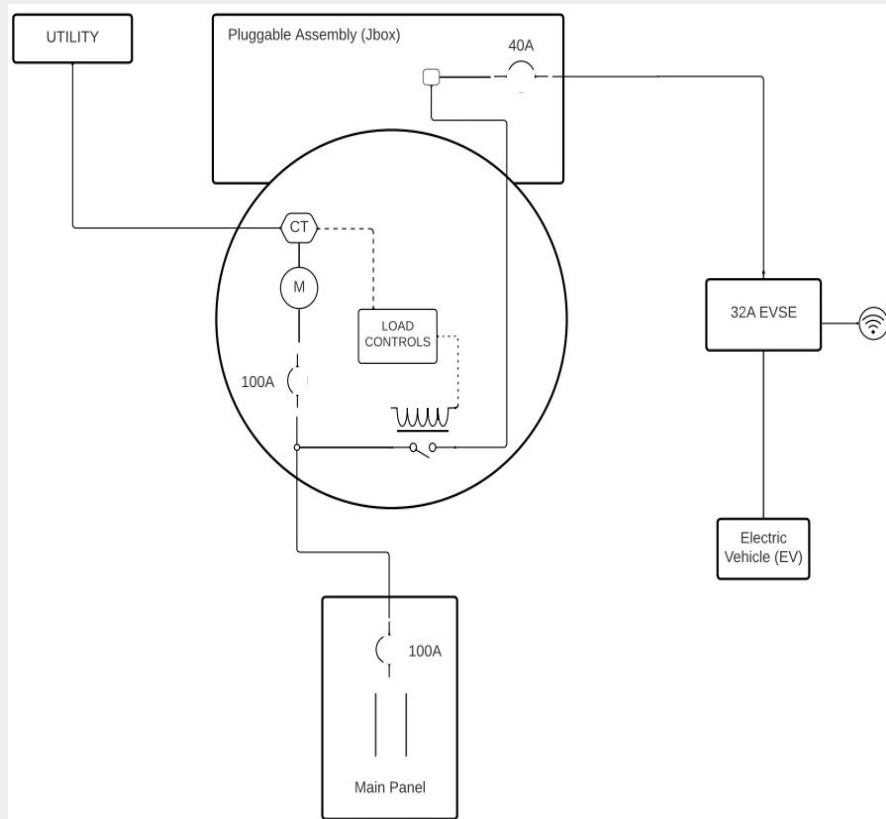
- ⚡ Designed to simplify connection of level 2 EVSE to the home without the need for service upgrades
- ⚡ Built in energy management functionality protects the home from potential overload
- ⚡ Applicability to other 120/240V sources or loads
- ⚡ Designed for 100 & 125 Amp services



# EV MSA V1.0

## Key Features

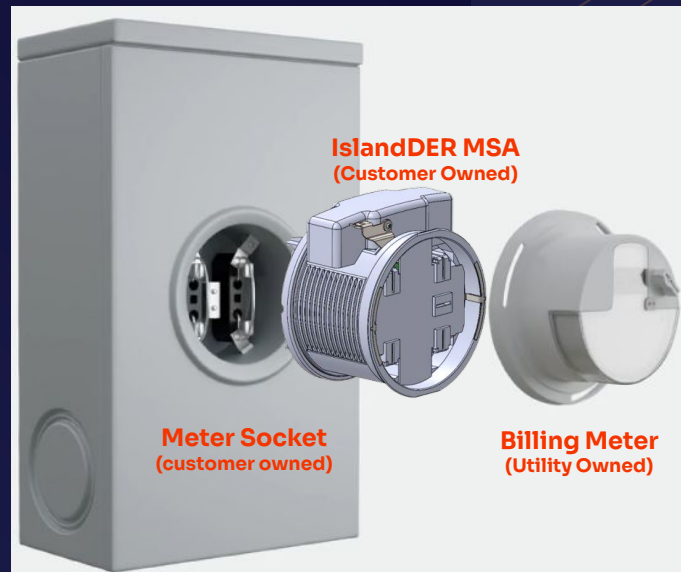
- Designed to automatically shed load when consumption exceeds service rating
- Rated for 100/125A residential electrical services
- 100/125A integrated whole-house circuit breaker
- 40/60A branch circuit breaker
- Rated for 32A (7.68kW) EVSE / other 240V loads / sources
- 22k AIR rating
- 2S meter forms, ringed / ringless sockets





# What is IslandDER?

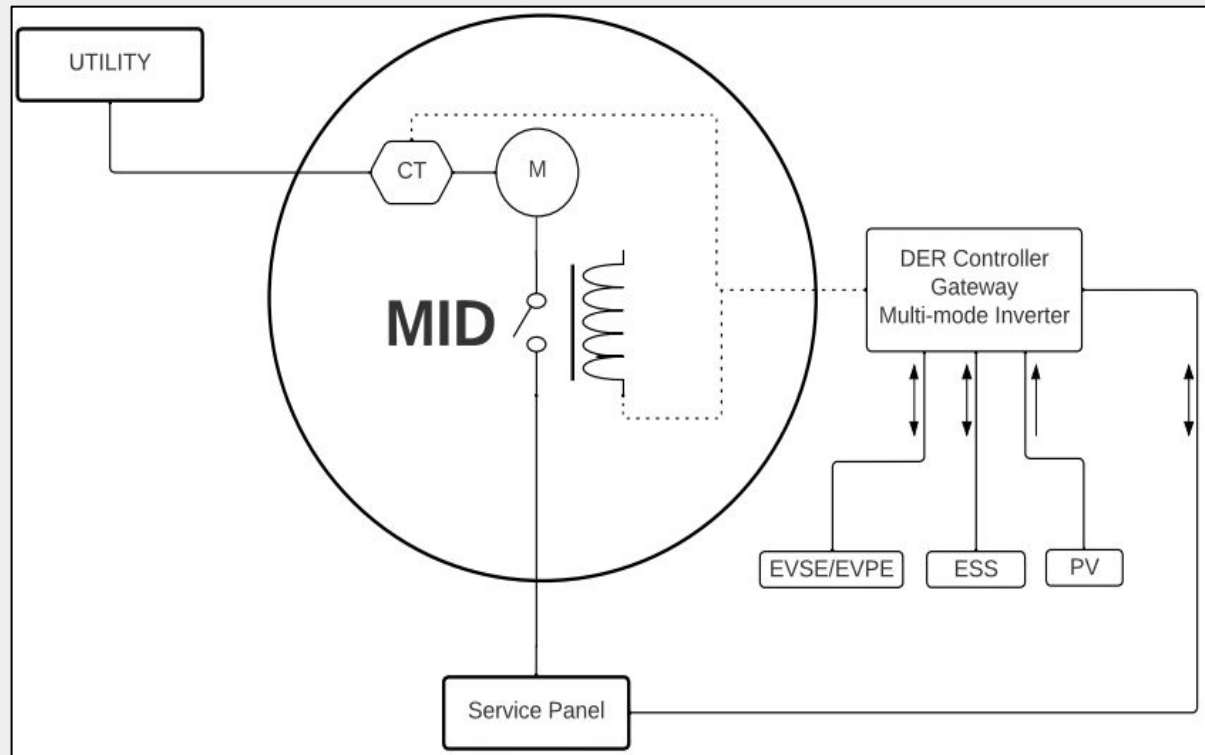
- ⚡ A game-changing Meter Socket Adapter (MSA) that will disrupt the residential energy storage space by unlocking whole-house and partial backup power behind the meter.
- ⚡ Comprising main MSA housing (Base) and pluggable data and/or power assembly\* (Connection Module) for connections to partner equipment.
- ⚡ Provides:
  - Whole-house disconnect (MID)
  - Voltage and current sensing
  - Data cable with analog signals to 3rd party equipment



# IslandDER MSA V1

## Key Features

- Rated for use in up to 200 Amp services
- Grid Isolation and Data Telemetry
- 200A Heat Rise Rating (passive, no fans)
- 22k AIC / AIR rating
- 2S / 12S meter forms and sockets

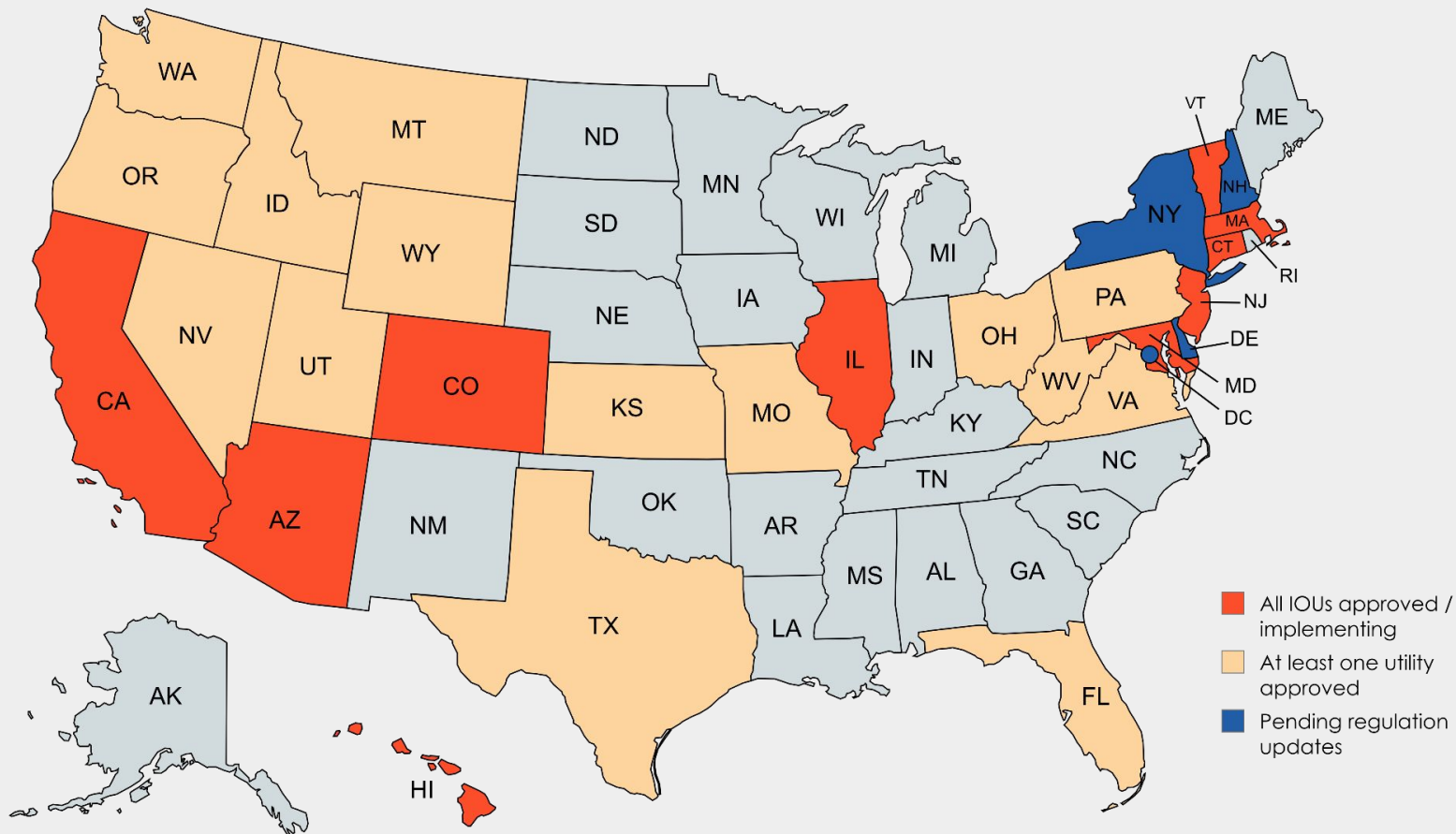


# Applicability of SB2967 to MSA models & uses

- The MSA section of SB2967 does not specify use cases or limitations on types of MSA, though other sections of the bill reference transportation electrification, solar, and storage.
  - *SB2967: “For the purposes of this section, “meter socket adapter” shall mean an electronic device that is installed between a residential electric meter and the meter socket, for the purpose of facilitating the deployment of customer-owned or customer-leased technology.”*
- MSA rules are often addressed through interconnection topics and applied to different use cases, including solar, storage, and load management (such as EV charging).
  - Examples: Illinois, Maryland, Pacificorp Companies
- We suggest that the rules developed through the TSRG would apply to any customer-owned MSA model that meets the minimum requirements of SB2967.

# Current MSA Approval Landscape

# 02



# Best Practices and Lessons Learned

# 03



# Best Practices

- Focus requirements on “clearances and condition”.
- Clearances:
  - Adequate working space should be maintained with MSA installed. No violations of existing requirements introduced.
- Condition:
  - Installer evaluates meter socket condition per manufacturer's installation instructions – housing, jaws, lugs, wiring, etc. must be in good working order.
- Utilities do not need to promulgate their own rules – follow manufacturer’s installation instructions.

# Processes and Lessons Learned

## Internally:

- Complete draft of standards updates
- Publish internal technical awareness bulletin, do training with:
  - Meter engineering
  - Meter operations
  - Revenue protection
  - Power quality
  - Distributed generation
  - Customer service
  - Bargaining unit

## Externally:

- AHJ awareness training - work with IAEI and other associations, state agencies with oversight.
- Inform installers via regular communications channels and meetings.