



# MSS 0.5MW-XTM

# MSS 0.75MW-XTM

# MSS 1MW-XTM

# MSS 1.5MW-XTM

## FEATURES

- 0.5 to 1.5MW fully-integrated stations
- Direct connection to MV utility power
- Quick & easy installation
- 1000 VDC

## OPTIONS

- Open skid, canopy or enclosure
- Peer or pad mount
- Radial or loop feed
- Dust filters
- DC breakers/subcombiners (for inverters)
- Auxiliary power
- Extended warranty
- Uptime guarantee

## OPTIONS FOR UTILITIES

- Real power curtailment
- Reactive power control
- Voltage ride through
- Frequency ride through
- Controlled ramp rates
- SCADA/DMS tie-in

## MEDIUM VOLTAGE SMARTGRID STATIONS

The Megawatt Solar Stations (MSS) provide a fully-integrated inverter solution for large ground-mount PV systems. The MSS is available in three styles - open skid, canopy, or enclosed building. The station combines one or two Yaskawa - Solectria Solar SGI 500XTM or SGI 750XTM inverters, communications equipment, 2.5-35 kV medium voltage transformer for multi-megawatt projects. All components arrive at a customer site fully assembled and tested, saving the additional time and cost of installing and wiring separate components.



SPECIFICATIONS	MSS 0.5MW-XTM	MSS 0.75MW-XTM	MSS 1MW-XTM	MSS 1.5MW-XTM
<b>Structural</b>				
Dimensions (L x W x D)	267 x 138 x 95 in. (6782 x 3506 x 2413 mm) 267 x 138 x 129 in. (6782 x 3506 x 3277 mm) 410 x 138 x 120 in. (10414 x 3506 x 3048 mm)			
Weight	35,000 lbs (15,876 kg)      37,500 lbs (17,010 kg)      40,000 lbs (18,144 kg)      45,000 lbs (20,412 kg)			
Skid	36,500 lbs (16,556 kg)      39,500 lbs (17,917 kg)      41,500 lbs (18,824 kg)      46,500 lbs (21,092 kg)			
Canopy	37,000 lbs (16,783 kg)      39,500 lbs (17,917 kg)      42,000 lbs (19,051 kg)      47,000 lbs (21,319 kg)			
Enclosure				
Color	Frisco White; other colors optional			
Baseframe	Structural steel; conforms to ASTM A36; shop welded			
Enclosure Type	Skid, Canopy, or Enclosure			
Flooring (Enclosure)	1/4" steel plate or 3/16" diamond tread steel plate; insulation optional			
Walls (Enclosure)	Post minimum 14 gauge galvanized, shop welded to structural steel base frame & roof z-bracket			
Siding (Enclosure)	Full length, tight fitted, weather tight & weather proof; standard 0.040 gauge factory painted stucco aluminum			
Roof (Enclosure)	Full length, tight fitted, weather tight & weather proof; EPDM membrane roof optional; bows are c-style 16 gauge galvanized at 24"; sloped at 1" minimum pitch; insulation optional			
Door (Enclosure)	Minimum 20 gauge hollow metal doors with R2.4 insulation; interior panic hardware; door closer; exterior drip strips			
<b>Electrical</b>				
Lighting (Enclosure)	Interior florescent lighting; 4 ft or 8 ft T8 high output light fixtures; other light fixtures available			
Conduit & Fittings	Electrical metallic tubing (EMT) or flexible metal conduit; not less than 1/2" diameter			
Light Switches (Enclosure)	20 A, 250 V minimum (located at doors)			
Convenience Power	120 V, 20 A receptacles, listed GFCI weather tight & approved for outdoor use			
Wireways & Cables	All MSS components are listed and station is in full compliance with the National Electric Code (NEC)			
<b>Medium Voltage Transformer*</b>				
Nominal Output Power	500 kVA, 3-Ph	750 kVA, 3-Ph	1000 kVA, 3-Ph	1500 kVA, 3-Ph
Utility Connection Voltage	2.5-35 kV			
Utility Connection kV Classes	15 kV / 25 kV / 35 kV			
Taps	(2) 2.5% above & (2) below nominal			
Frequency	60 Hz			
Inverter Output Voltage	380 VAC			
Inverter Output kV Class	1.2 kV			
Cooling Class	KNAN			
Insulating Fluid	Envirotemp FR3			
Overcurrent Protection	Partial range current-limiting fuses			
Configuration	Dead front and loop feed			

\* Transformer options not listed, but may be quoted upon request