



MSS 0.5MW-XT

MSS 1MW-XT

FEATURES

- 0.5 or 1 MW fully-integrated stations
- Direct connection to MV utility power
- Quick & easy installation

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

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 500XT 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-XT	MSS 1MW-XT
Structural		
Dimensions (L x W x D)	267 x 138 x 95 in. (6782 x 3506 x 2413 mm)	
Skid	267 x 138 x 129 in. (6782 x 3506 x 3277 mm)	
Canopy	410 x 138 x 120 in. (10414 x 3506 x 3048 mm)	
Enclosure		
Weight		
Skid	30,000 lbs (13,608 kg)	33,000 lbs (14,969 kg)
Canopy	31,500 lbs (14,288 kg)	34,500 lbs (15,649 kg)
Enclosure	36,000 lbs (16,330 kg)	39,000 lbs (17,690 kg)
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	
Electrical		
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)	
Medium Voltage Transformer*		
Nominal Output Power	500 kVA, 3-Ph	1000 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	208 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

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