

# MSS 1MW

# MSS 1.5MW

# MSS 2MW

**FEATURES**

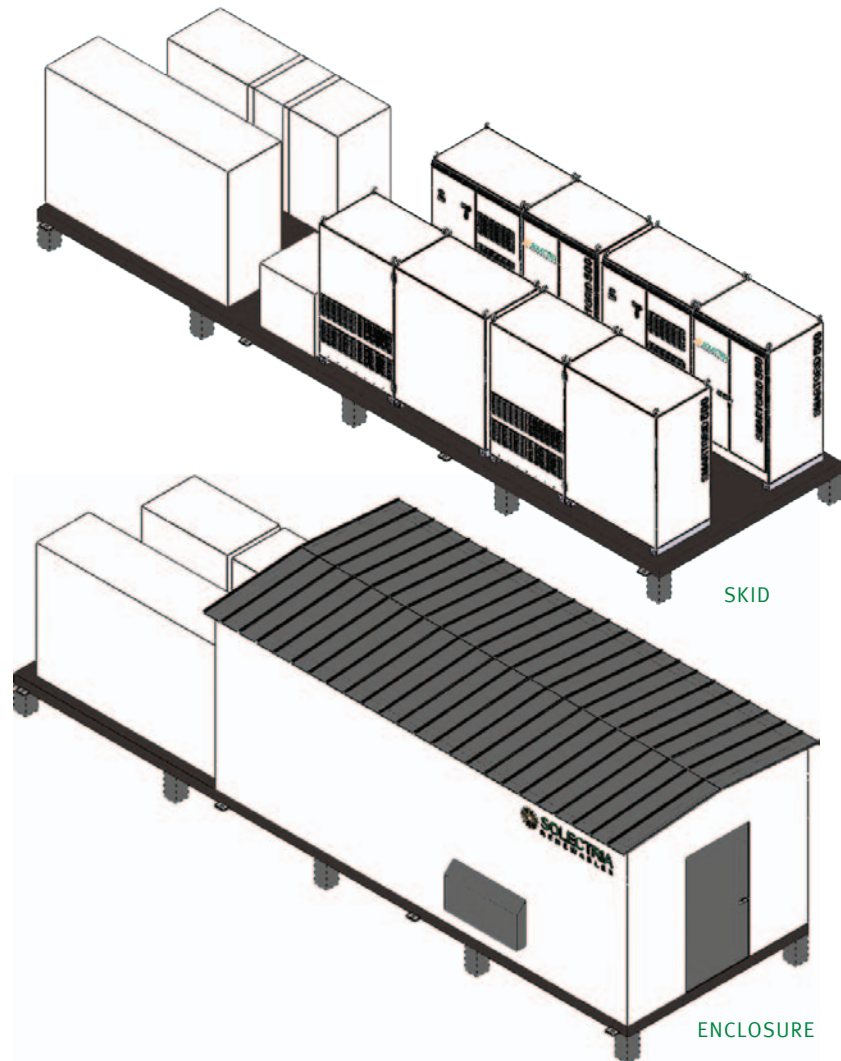
- Multiple sizes: 1MW, 1.5MW, 2MW
- Integrated stations
- Direct connection to MV utility power
- Quick & easy installation

**OPTIONS**

- Uptime guarantee

**OPTIONS FOR UTILITIES**

- Low voltage ride through
- VAR support
- Controlled ramp rate
- Remote power control



## MEDIUM VOLTAGE SMARTGRID STATIONS

The Megawatt Solar Station (MSS) solutions provide a fully-integrated inverter solution containing premium efficiency components unprecedented in the industry. The MSS is available in two options – skid or enclosure. The station combines the Solectria Renewables SGI 500 (500 kW SMARTGRID Inverter), 2.5-35 kV medium voltage switchgear, MV transformer for multi-megawatt projects. All components arrive at a customer site assembled in one station, saving the additional time and cost of installing and wiring separate components.



SPECIFICATIONS	MSS 1MW SKID	MSS 1MW ENCLOSURE	MSS 1.5MW SKID	MSS 1.5MW ENCLOSURE	MSS 2MW SKID	MSS 2MW ENCLOSURE
<b>Structural</b>						
Dimensions (H x W x D)	89.3 in. x 258 in. x 137 in. (2268.5 mm x 6553.2 mm x 3479.8 mm)	120 in. x 312 in. x 138 in. (3048 mm x 7924.8 mm x 3505.2 mm)	89.3 in. x 392 in. x 137 in. (2268.5 mm x 9956.8 mm x 3479.8 mm)	120 in. x 462 in. x 138 in. (3048 mm x 11734.8 mm x 3505.2 mm)	89.3 in. x 392 in. x 137 in. (2268.5 mm x 9956.8 mm x 3479.8 mm)	120 in. x 462 in. x 138 in. (3048 mm x 11734.8 mm x 3505.2 mm)
Weight	33,000 lbs (15,000 kg)	39,000 lbs (17,727.3 kg)	52,000 lbs (23,636.4 kg)	53,500 lbs (23,318.2 kg)	60,000 lbs (27,273 kg)	62,000 lbs (28,181.8 kg)
Color	Frisco White; Other colors optional					
Baseframe	Structural steel; conforms to ASTM A36; shop welded					
Flooring (Enclosure)	3/4" fire rated plywood or 1" skid guard or 3/16" diamond tread steel plate or 1/4" diamond tread aluminum 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 22 gauge factory painted stucco aluminum; optional 24 gauge factory painted steel					
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 button; door closer; exterior drip strips					
<b>Electrical</b>						
General	All MSS components are UL or ETL listed and in full compliance with the National Electric Code (NEC)					
Lighting (Enclosure)	Interior florescent lighting; 4 ft or 8 ft T8 high output light fixtures; optional other light fixtures					
Conduit & Fittings	Electrical metallic tubing (EMT) or flexible metal conduit; not less than 1/2" diameter					
Light Switches (Enclosure)	20A, 250V minimum, UL listed					
Receptacles	20A, 125 V single or duplex, UL listed weather tight & approved for outdoor use; GFCI receptacles to be specified; cover plates are galvanized steel					
Wireways & Cables	All MSS components are UL or ETL listed and in full compliance with the National Electric Code (NEC)					
<b>Mechanical</b>						
Air Conditioning	Optional wall mounted unit					
Fire Extinguisher	1, 8 lb. multi-purpose dry chemical fire extinguisher included (HMIS 1-0-0)					
<b>Medium Voltage Transformer</b>						
Nominal Output Power	1000 kVA, 3-Ph		1500 kVA, 3-Ph		2000 kVA, 3-Ph	
Utility Connection Voltage	2500-35000 VAC					
Utility Connection kV Class	15 kV / 25 kV / 35 kV					
Taps	(2) 2.5% above & below nominal					
Frequency	60 Hz					
Inverter Output Voltage	480Y/277					
Inverter Output BIL Rating	30 kV					
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					
<b>SMARTGRID Inverters</b>						
SGL 500 Inverters	2	2	3	3	4	4
Please see the SGL 500 datasheet for more specifications						