



Sun-In-One™

New Electrical Solar Light and Power Products



U.S. SPECIFICATIONS

Micro Grid Systems – 1.0MW

Highly Efficient Plug-N-Play Containerized Off-Grid Energy Solutions

SOLAR PANELS

NUMBER OF PANELS		3600	2208
PEAK POWER	Pmax	280W	460W
RATED VOLTAGE	Vmp	35.30V	48.86V
RATED CURRENT	Imp	7.93A	9.40A
MAXIMUM SYSTEM VOLTAGE	IEC, UL	1000V	600V
DIMENSIONS	Various Configurations		
WEIGHT	Dependent on Configuration		
WARRANTY	12 Yrs & 25 Yrs Limited on Minimum Power Output		
CERTIFICATIONS	TUV, SUD, CQC, UL, CE, ROHS, MCS, ISO9001		
PV CLIPS FOR WIRE MGMT	4 per Panel		



GROUND MOUNT RACKING

5-Panel high racking in landscape with 44 columns or ballast boxes per row (45 posts). Sixteen (16) total rows.

A different layout, orientation, tilt, panel clearance, or snow load will require further engineering and additional costs.

PILE DRIVEN

3.35m GALVANIZED STEEL POSTS	760
4.35m GALVANIZED STEEL PURLINS	760
CLIPS FOR PANEL MOUNTING	4 per Panel
TILT	20 Degrees
SNOW LOAD	0 psi
FRONT PANEL CLEARANCE	76.2 cm

BALLASTED GROUND MOUNT

BALLAST BOX	760
DIMENSIONS (LxWxH)	198 cm x 61 cm x 30.5 cm
1.28m FRONT POST	760
1.9m REAR POST	760
4.35m GALVANIZED STEEL PURLINS	760
CLIPS FOR PANEL MOUNTING	4 per Panel
TILT	20 Degrees
SNOW LOAD	0 psi
FRONT PANEL CLEARANCE	76.2 cm

BATTERY

Battery storage is based on daily consumption and load profile of 2800 KWh with one day of autonomy. Batteries recharge through PV and Generator. If a larger configuration of batteries is desired, additional costs may apply.

OPERATION & PERFORMANCE

STORAGE CAPACITY	2.932 MWh
NOMINAL ENERGY (10-HR CHARGE / 20-HR DISCHARGE)	25.9 KWh
CYCLE LIFE (to 70% Retained Capacity)	3,000 Cycles
AMBIENT OPERATING TEMP	-5 °C to 40 °C
PEAK POWER	11.7 KW
CONTINUOUS CURRENT	240 A
DIMENSIONS	Various Configurations
WEIGHT	1504 Kg per Section
LIMITED WARRANTY	8 Years; 5 Yrs full + 3 Yrs Prorated



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INVERTER

INVERTER RATING	(4) 250 KW = 1.0 MW
POWER TERMINALS	(2) DC and (1) AC / Inverter
POWER STAGE TECHNOLOGY	High-Frequency PWM
POWER STAGE CONFIGURATION	(4) Fully Independent Power Stages
SIZE (LxWxH)	241 cm x 104 cm x 178 cm
DIMENSIONS (LxWxH)	1957 mm x 990 mm x 50 mm
WEIGHT	1,632 Kg
ENCLOSURE	NEMA 3 (Outdoor)
WARRANTY	5 Years

DC PORT For Battery

INPUT TYPE	Battery
DC VOLTAGE	415-600 VDC
MAX CURRENT	640 A
MAX CONTINUOUS POWER	265 KW
BATTERY CHARGE CONTROLLER	Configurable 3-Stage Profile for Batteries
BATTERY MANAGEMENT SYSTEM	External Control for BMS Interface

DC PORT for PV

INPUT TYPE	PV
PV MPPT	415-580 VDC
ISOLATION FROM AC	Yes, Grid Port Only

AC PORT – Generator

AC LINE VOLTAGE	400-440 AC 3-Phase, 3-Wire Optimal
AC LINE FREQUENCY	50 Hz Nominal
CONTINUOUS AC CURRENT	325 A
CONTINUOUS AC POWER	250 KVA
ISOLATION FROM AC	Yes (Internal)
OFF-GRID CONTROL FEATURE	Grid-forming Voltage Source
ON-GRID /OFF-GRID AUTO TRANSFER TIME	Autonomous Power Sharing Synchronized Start

DISCONNECT COMBINER BOX

NUMBER OF COMBINERS	8
DISCONNECT AMPACITY	400 Amps
PREWIRED INPUT CIRCUIT CABLE WHIPS	30
# OUTPUT CONDUCTORS	1 or 2
OUTPUT CONDUCTOR SIZE RANGE	#2 AWG to 600 MCM
WEIGHT	29.5 Kg
NEMA RATING	NEMA 4
ETL LISTED TO UL-1741	600 VDC & 1000 VDC

GENSET

DIESEL GENERATOR

RATING	1000 KW / 1250 KVA / 60 Hz
DIESEL ENGINE	Regulated
VOLTAGE LEADS	208 / 240 / 480
MAIN CURCUIT BREAKER	2000 A
ELECTRONIC START	12 VDC Start, Battery & Charger
LOAD SHARING CONTROLLER	Included
FUEL TANKS SIZE	8000 Liters
START-UP & COMMISSIONING	Included
WARRANTY	Optional

MICRO GRID CONTAINER CONTENTS

Micro Grid Container is a customized “plug-n-play” system that comes pre-wired with the inverter, batteries, and AC load panel. Wires run from the PV field and GENSET directly to the container, then from AC to the loads.

INVERTER	(4) 250 KW
BATTERIES	2.932 MWh
BATTERY RACKING	Customized
TRANSFORMER	208 / 240 / 277 HZ, 3-Phase
AC BREAKER PANEL	400 A, 3-Phase
MICRO GRID MONITORING SYSTEM	Yes, Connection for Data Not Included
CONTAINER SIZE(S)	40 FT HC

FREIGHT NOT INCLUDED.

System sizing, stringing & layout are climate dependent. Products & specifications are subject to change without notice. Products are warranted only to meet Sun-In-One data sheet specifications.



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