

# OASIS GEN. 3 5500/6800



## Specifications (CSA Certified To UL 1741 For USA and Canada)

An OASIS Solar Generator is your own personal electric power plant. The perfect standalone solution for your power needs. Our OASIS Solar Generators are constructed from world class quality UL Listed components and feature standalone, hybrid, pure sine inverters with large surge capabilities. OASIS Solar Generators include internet based monitoring and are WiFi enabled. Each system is pre-assembled, pre-wire, pre-programmed, tested and comes complete with our long life Nano-Carbon batteries, solar panels and cabling. Upon arrival the power center is ready to bolt to your wall right out of the box. Then install the batteries, solar panels and attach the cabling. All OASIS systems are upgradeable and scaleable. You can start out with a basic system and then add more solar panels, batteries, charge controllers and inverters as you want or select a larger system at the beginning. With the optional use of multiple AC inputs OASIS is a true hybrid power solution. Solar, grid and generator power can all be controlled through the OASIS system. You can set it up as a pure off-grid solution or you can optionally add grid and generator power sources. With cutting edge programmable options like Peak Shaving, Load Shifting, Solar Prioritization and much more OASIS has the flexibility to meet almost any power need or expectation. OASIS systems can be safely installed indoors, in RVs, trailers or as part of a containerized deliverable solution. Whether you are looking for disaster preparedness, disaster recovery, standalone power system, backup power or energy savings OASIS is the answer. Custom and commercial solutions are available.

As with any electrical device safety should be your first concern and to that purpose we highly recommend that you use a licensed electrician to connect the system's wiring.

## OASIS Power Center Specifications

	<b>Oasis Gen.3 5500</b>	<b>Oasis Gen. 3 6800</b>
Dimensions	50" T x 26.75" W x 11.5" D	50" T x 26.75" W x 11.5" D
Weight	225lbs actual / 300lbs ship	225lbs actual / 300lbs ship
Wire And Cabling	UL Listed / 99.9% OFC Copper	UL Listed / 99.9% OFC Copper
Inverter	Pure Sine Hybrid Standalone	Pure Sine Hybrid Standalone
Charge Controller	MPPT	MPPT
Surge Protection	YES	YES
ARC Fault Protection	YES	YES
Ground Fault Protection	YES	YES
UL Circuit Breaker Package	YES	YES
AC Bypass	YES	YES
LED Indicators	YES	YES
Graphic Display Interface	YES	YES
Certifications	ETL for USA and Canada	ETL for USA and Canada

### Inverter Specifications

Inverter Class	Hybrid Standalone AC	Hybrid Standalone AC
Inverter Type	Pure Sine	Pure Sine
Output AC Voltage	120/240 VAC +/- 3%	120/240 VAC +/- 3%
Input DC Voltage	42V to 60V (48V Nominal)	42V to 60V (48V Nominal)
Maximum DC Current Input	150A	180A
Output Power (Continuous @ 25C)	5500W	6800w
Output Power (30 Minutes @ 25C)	7000W	8500W
Output Power (30 Seconds @ 25C)	9500W	12000W
Max. Output Current (60 Seconds rms)	82A(120V);41A(240V)	102A(120V);52A(240V)
Output Frequency (Selectable)	50Hz/60Hz	50Hz/60Hz

### Inverter AC Inputs (2)

AC Input #1 Grid (optional use)	Selectable 3-60A (60A default)	Selectable 3-60A (60A default)
AC Input #2 Generator (optional use)	Selectable 3-60A (60A default)	Selectable 3-60A (60A default)
Auto Transfer Relay Rating-Time	60A/8ms	60A/8ms
AC Input Voltage Limits (bypass/charge)	78-140V(120V) / 160-270V(240V)	78-140V(120V) / 160-270V(240V)
AC Input Frequency (bypass/charge)	55-65Hz(def.)52-68Hz(allowable)	55-65Hz(def.)52-68Hz(allowable)

### Inverter DC Charger Output

Max. Output Charge Current	110A	140A
Charger Output Voltage Range	40V-64V (48V nominal)	40V-64V (48V nominal)
Charge Control Modes	3-Stage, 2-Stage, Boost, Custom	3-Stage, 2-Stage, Boost, Custom
Supported Battery Types	Flooded, AGM, Gel, Lith Ion, Cust.	Flooded, AGM, Gel, Lith Ion, Cust.

Battery Bank Range	440Ah-10,000Ah	440Ah-10,000Ah
Power Factor Corrected Charging	0.98	0.98
Temperature Compensated Charging	YES	YES
Dead Battery Charging	YES	YES
<b>Inverter Features</b>		
Field Serviceable	YES (Modular Architecture)	YES (Modular Architecture)
Multi-Inverter Stackable	YES	YES
Digital OS	YES	YES
Firmware Upgrade-able	YES	YES
AC Coupling Compatible	YES	YES
DC Coupling Compatible	YES	YES
Automatic Generator Control	YES	YES
Internet Based Monitoring	YES	YES
WiFi	YES	YES
3-Phase Capable	YES	YES
Peak Shaving	YES	YES
Load Shifting	YES	YES
Solar Prioritization	YES	YES
Consumption Prioritization	YES	YES
<b>Inverter Operating Range</b>		
Operating Range	-25°C to 70°C (-13°F to 158°F)	-25°C to 70°C (-13°F to 158°F)
<b>Inverter Regulatory Approval</b>		
Safety	UL1741, CSA 107.1	UL1741, CSA 107.1
EMC Directive	FCC and Industry Canada Class B	FCC and Industry Canada Class B
Interconnect	IEEE 1547 and CSA 107.1	IEEE 1547 and CSA 107.1
<b>Charge Controller Specifications</b>		
Type	MPPT	MPPT
Operating Modes (selectable)	Solar, Wind, Hydro	Solar, Wind, Hydro
Nominal Battery Voltage	12VDC to 72VDC	12VDC to 72VDC
Maximum Output Current	86A (on 48V system)	86A (on 48V system)
Power Conversion Efficiency	98.00%	98.00%
Charge Regulation (programmable)	Bulk, Absorb, Float and EQ	Bulk, Absorb, Float and EQ
Communications	RS232, Ethernet, ModBus	RS232, Ethernet, ModBus
Graphical Display Interface	YES	YES
Arc Fault Protection	YES	YES
DC-Ground Fault Protection	YES	YES
Auxiliary Control Output	YES (2)	YES (2)
Internet Ready	YES	YES

Data Logging	YES (380 days)	YES (380 days)
Battery Over Voltage Protection	YES	YES
Battery Short Circuit Protection	YES	YES
<b>Charge Controller Features</b>		
Field Serviceable	YES (Modular Architecture)	YES (Modular Architecture)
Stackable	YES	YES
Digital OS	YES	YES
Firmware Upgrade-able	YES	YES
<b>Charge Controller Regulatory Compliance</b>		
Safety	ETL for US & Canada, CE Certified, FCC Class B	ETL for US & Canada, CE Certified, FCC Class B

<b>Battery Specifications</b>		
Manufacturer	Sunvolt Systems	Sunvolt Systems
Type	VRLA-AGM Nano-Carbon	VRLA-AGM Nano-Carbon
Nominal Voltage	12VDC	12VDC
Amp Hours (per battery @ 25C)	110Ah	110Ah
Absorb Voltage (25C)	14.4VDC	14.4VDC
Float Voltage (25C)	13.6VDC	13.6VDC
Equalization Voltage	Not Required	Not Required
Max. Charge Current (per battery)	30A	30A
Storage - Self Discharge (25C)	6-Months Before Fresh Charge Req.	6-Months Before Fresh Charge Req.
Terminal Type	Top Terminal ¼' -20 UNC	Top Terminal ¼' -20 UNC
Cycle Life (50% DOD)	3000	3000
Cycle Life (20% DOD)	6800	6800
Weight (lbs)	69	69
Dimensions (in)	8.52 x 13.42 x 6.80	8.52 x 13.42 x 6.80
<b>Solar Panel Specifications</b>		
Manufacturer	Mitsubishi Electric	Mitsubishi Electric
Type	Monocrystalline Silicon	Monocrystalline Silicon
Number Of Cells	120	120
Power Rating (various)	260W-280W	260W-280W
Dimensions (in)	64" x 40.1" x 1.81"	64" x 40.1" x 1.81"
Weight (per module)	44lbs	44lbs
Certifications	UL 1703, IEC 61215, IEC 61730	UL 1703, IEC 61215, IEC 61730