SOLAR STIK®

7.0kW, 230V, 50Hz Generator with RsEK

Item # 19-0401006

Built for the Austere

The Solar Stik 7.0 kW Remote-start enabled generator is a ruggedized, commercial-grade generator built to withstand the rigors of worldwide deployment. Constructed with purpose in mind, it provides reliable power in remote, austere locations where punishing environmental conditions and minimal logistical support are critical factors. This smart generator is a completely integrated solution built to handle abuse. It has built in protections for impact, vibrations, heat, particulates (dust and foreign object debris), moisture and UV irradiation. The engine, generator, and cooling system ride on heavy-duty shock absorbers, which minimize noise and vibration. The sub-frame, cavernous fuel tank (minimizes refueling cycles) and chassis are constructed with high-quality, powder-coated steel. The mechanical system is environmentally sealed and hardened against the elements. These features ensure the generator is at-the-ready for the rigors of transport to a permanent location or mounted on a mobile platform that routinely moves over rough terrain.

Reliable Anywhere

The liquid-cooled, fuel-efficient Yanmar diesel engine is built for long service life with minimal maintenance during rugged deployment. The engine has been in service for years throughout multiple industries, meaning parts and service are available in the most remote areas on the globe.

Hybrid-Power-System Ready

This generator is designed for optimal use in an intelligent power system. The built in user interface provides manual and remote Auto-Generator Start / Stop (AGS) operation at the push of a button, providing on-demand power or automatic operation when connected to any Solar Stik 3-6kW Hybrid Power System. The genset quietly and seamlessly powers loads and recharges batteries when operating in a Hybrid Power System architecture. Generating a robust 7,200 W (peak) 230 VAC power output, the genset easily handles spikes or swings in power demand that are often associated with hybrid power applications.

Power Up Worry Free

The genset provides users the confidence to operate anywhere in the world with a compact footprint and decreased logistical burden. With the integrated generator running smoothly even in the most severe applications, operators can focus on their mission free from the burden of unreliable power.

Design

- Compact footprint with consolidated “chassis” design
- 51 gallon steel diesel fuel tank
- Industrial muffler with advanced sound-deadening shield (75db under load)

Operation

- Liquid cooling for operation in extreme heat
- Heavy duty air cleaner with advanced particulate capture and sediment trap
- Rubber shock-absorbing mounting system to reduce vibration and noise
- Optima “high heat” AGM Battery and secure-lock rack with cables

User Interface

- Deep Sea 3110 controller, User Interface, and Remote-start Enabling Kit (RsEK)
- (1) 230 VAC, 30 A, (L6-30R) Output
- 10 Pin, 22AWG Connection (Direct connection to PRO-Verter Gen Comm Port)
- Auto-Generator Start (AGS) Capability

Power Output

- 7kW at 230 VAC

SS20220623

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General

AC Power Generation	7.2 kW Peak, 6.9 kW Continuous
AC Operating Voltage	230 VAC, 50 Hz
Rated Current	30 A

Construction

Material	Steel (primary material)
Coatings	Powder Coated (choice of color)
Shock & Vibration Mounts	Heavy Duty Rubber Feet
Lifting points	4 (with Spreader Bar) or Slings with Top Cover Removed
Mounting points	4 Flanges at base

User Interface

DSE 3110 Control Panel	AUTO-START/STOP MANUAL Start Illuminated LCD Status Icons to indicate operational status LED and LCD alarm indication Generator AC voltage display Generator frequency display Battery voltage display Engine RPM display Hobbs meter (hours) Comprehensive shutdown during fault conditions Multiple engine parameters monitored IP65 rating

Engine

Engine model	Yanmar 3TNV80F-NGGE
Cylinders	3
Combustion Type	indirect Injection
PMCS Intervals	1st time - 50 hours, Subsequent 250 hours
Service Life (TBO)	~15,000 hours
Aspiration	Natural
Exhaust	Industrial muffler, mounted vertical with environmental cap
Cooling	Liquid Cooled, High Ambient Radiator
Air Filters	Two-stage - Centrifugal Particle Separator & Heavy Duty Filter
Oil Filter	<TBD>
Belt	Single - Alternator, Water Pump, Fan
Rotation Speed	1500 RPM
Max Operating Incline	30º for 10 min 25º continuous
Starter Type	12 V Electric
Starting Battery	12 V, OPTIMA AGM, 450 Cold Cranking Amps
Battery Charging	Regulated 14 V, 20 A (for AGM)
Acoustic Noise	75 db at distance of 7 meters (23ft)

Fuel

Capacity	51 US Gal
Fuel Type	Diesel
Consumption	.25 Gal/hr @ 50% load .50 Gal/hr @ 100% load
Fuel Filters	Inline, Primary and Secondary
Fuel Pump Type	Electric 12 V
Fuel Gauge	Mechanical, Tank Mounted

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Alternators

AC	Mecc Alte ecp28C-2S
AC Type	Revolving fields, Four-pole, Single-phase
Protection class	IP23
PMCS intervals	Cleaning - 400 Hours; Maintenance - 2500 Hours
DC	Baldor

Connections

Output	(1) L6-30R, HBL2620SW
Grounding	Terminal Lug
Gen Comm Port	(For connection to PRO-Verter)

Safety Circuits

Engine	Oil Pressure Shut Down
Engine	Coolant Temperature Shut Down
Emergency STOP	PUSH Button
AC Breaker	Generator Main Switch AC Circuit Breaker, 40 A DPST

Environmental

Max Operating Wind	• Average steady state 50 mph (22.4 m/s) with provided ground securing • Gust 60 mph (26.8 m/s) with provided ground securing • Solar Array includes stabilization (ground securing) required to operate in the wind environments mentioned above
Max Teardown Wind	Average 25 mph (11.2 m/s) with provided ground secruring

Weights and Dimensions (L x W x H)

Weight	960 lb (435.5 kg) - <TBD>
Dimensions	24 x 50 x 52 in (61 x 127 x 132 cm)

Compliance

Built and designed to comply with	• MIL STD 1474 • MIL-STD-810G Part Three – Sand and Dust

Temperature

Operating Temperature	-20 ºF to +131 ºF (-28.9 ºC to +55 ºC)
Storage Temperature	-4 ºF to +149 ºF (-20 ºC to +65 ºC)

NOTE: The generator can be stored at extreme temperatures by following weatherization and maintenance procedures

Warranty

<TBD>

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