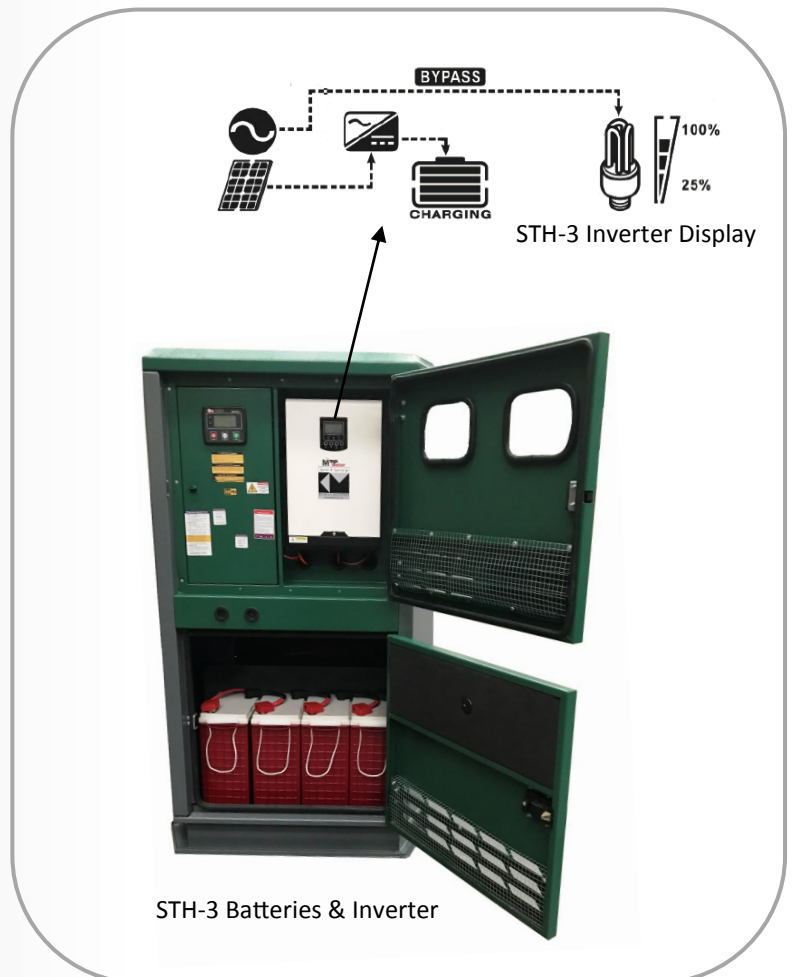


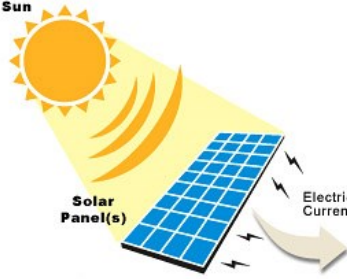
HYBRID GENERATOR SET

Multi Sourced Energy Solution

- Comprehensive power solution
- Built in redundancy
- Up to 6 months autonomy
- Design optimised to lower OPEX
- Lower emissions
- Compact plug & play package
- Three sources of input energy:
 - Genset
 - Solar (option)
 - Mains (option)
- Two sources of output energy:
 - Batteries via inverter
 - Genset
- Durable Yanmar driven genset
- Stamford alternator
- Deep Sea control panel
- Deep Sea static battery charger
- Pure sine wave inverter
- MPPT solar regulator
- Heavy duty Stauch canopy
- Silent operation in inverter mode
- 69dBA @ 7 meters in genset mode
- 2 mm French forged steel
- 7 stage coating system by Akzo Noble paints
- Bird/rodent mesh on air intake
- Low visual impact colour scheme
- Large base fuel tank in retention bund
- Electronic fuel sender read by control panel



Solar Irradiance
from the Sun



How It Works

Batteries receive energy from the generator set and solar panels

Under normal operating conditions the load is powered by the batteries through an inverter that converts DC battery power to AC power. When the batteries need charging the inverter starts the generator set which charges the batteries. Adding solar energy reduces the run time of the generator set



Diesel Generator set



When load is too great for the inverter, the power is provided directly from the generator



Load

Standard Configuration

MODEL	APPLICATION	INVERTER	BATTERY	GENSET	SOLAR (optional)
STH-3	Continuous low load draw eg. Communication Towers	2.4 kWe	400 amp	7.5 kVA	4 x 285 watt
STH-4	Variable load draw eg. Portacoms, Small Residential	3 kWe	625 amp	9kVA	6 x 285 watt
STH-6	Medium load applications eg. Residential	5kWe	8.5 kW/hrs Lithium	15kVA	10 x 285 watt
STH-10	Medium to large load applications eg. Residential , Small Commercial	7.5kWe	17 kW/hrs Lithium	20kVA	14 x 285 watt

Weights, Dimensions & Performance

MODEL	DIMENSIONS	WEIGHT (no fuel)	FUEL	L/hr (charging)	COMMON OPTIONS
STH-3	L = 2230mm W = 1050mm H = 1650mm	1100 kg	400 Litres	.7	Mains input with ATS Upgrade in battery capacity Remote monitoring via phone, tablet or PC
STH-4		1350 kg	250 Litres	1	
STH-6		1100 kg	250 Litres	1.8	
STH-10		1290 kg	160 Litres	2.7	

Tailored solutions available on request

Kilowatt Machinery Ltd have made every effort to ensure information in this publication is accurate, however reserve the right to amend specifications and information without notice, obligation or liability

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