

Generating Set

TECHNICAL DATA SHEET

201220

Prime Power*	Standby Power**	Voltage/Ph	Hz/rpm***	PF
300kVA/240 kWe	330 kVA/264 kWe	400/3Ph	50/1500	0.8

Prime power*

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for1 hour in every 12 hours operation.

Standby power**

Limited to 500 hours annual usage with an average load factor of 80% of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power. Available in 60HZ for all voltage ratings.***

Standard Reference Conditions

Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Diesel Generator Set	
Engine Make /Model	PERKINS 1506A-E88TAG5
Alternator Make /Model	Leroy Somer TAL-046-F
Control Panel	DSE 6120
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)
Built in Base Fuel Tank Capacity	520L
Battery	Maintenance free Lead Acid

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	3800	1400	2100	3525
Open Type	2900	1150	1870	2595

ENGINE SPECIFICATIO	ONS	
Engine Make Model	PERKI	NS 1506A-E88TAG5
No. of Cylinders	6 verti	ical in-line
Cycle	4 Stro	ke
Aspiration	Turbo	charged
Cooling Method	Water	cooled
Governing Type	Electro	onic
Governing Class	G2 - IS	O 8528 Part 1
Compression Ratio	16.1:1	
Displacement	8.8 L	
Bore/Stroke	112 x	149 mm
Dynamic Charging Alternator	45AN	IP, 24V
COOLING SYSTEM		
Total Coolant Capacity (L)	33.2 L
Cooling Fan Air Flow		370 m₃/ min
Radiator Fan Load		8 kW
Cooling system design		50₀C
Heat Radiation to Room	(PRP)	61 kW

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	39 L
Oil Type	API-CH-4 or ACEA E5
• • •	00 2

BRICATION SYSTEM

AIR SYSTEM	
Air Filter Type	Dry Element
Combustion Air Flow (PRP)	17 m₃/min
Combustion Air Flow (ESP)	18.3 m ₃/min
Max Air Filter Intake Restriction	6.2 kPA
Exhaust System	
Muffler Type	Residential Grade
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP/ESP)	45.1 /50 m ₃/ min
Exhaust Gas Tempera- ture	<u><</u> 574 ₀C

Comply with Standards

ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

Powered By:







WE MAKE YOUR POWER SOLUTIONS SUSTAINABLE



<u>Silent / Closed Type</u> Image for illustration purposes only.

Why Sun & Energy GeneratorTechnology (SGT)?

When you are running a business every competitive advantage counts, choosing a right Generator Set can make all the difference to bottom line.

1. Features & Benefits:

- SGT Gen set is powered by Perkins Engine , the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.
- SGT Gen set is powered by Leroy Somer France Alternator, the Global number 1 in Alternators, with over 99 years of Experience, Having 120+ active patents, in over 40 countries and over 80 service centers.
- SGT Gen set is equipped with DSE controller, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller.
- Low fuel consumption, saving on fuel spend
- Compact and rugged design, saving on transport and storage cost
- Designed to occupy less space considering critical applications and cities where space is at a premium.
- Low noise and vibration, considering critical applications where noise level matters
- Easy maintenance and long service intervals , saving on maintenance cost
- Subject to rigorous tests including load acceptance, cooling, vibration and noise level prior shipment to customer.
- Simple to operate and environment friendly in worst ambient conditions
- Equipped with built-in fuel tank sufficient for 8 to 10 hours of operations.
- Fully Engineering wide range of optional accessories available.



TECHNICAL DATA SHEET



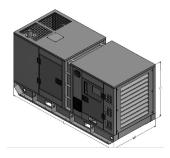
PERKINS Engine 1506A-E88TAG5



Leroy Somer TAL-046-F



DSE6120 MKII AUTO START & AUTO MAINS FAILURE CONTROL



SGT ENCLOSURE/ CANOPY

Sun & Energy Solar FZCO CEO **Building Dubai Investment Park** 1 Dubai, U.A.E. +971509532031 Sun & Energy

Engine Fuel System	Engine	Fuel	System
--------------------	--------	------	--------

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	73 L/hr
Fuel Consumption 100% PRP	65 L/hr
Fuel Consumption 75% PRP	48 L/hr
Fuel Consumption 50% PRP	33 L/hr

ALTERNATOR SPECIFICATIONS

Alternator Make /Model	Leroy Somer TAL-046-F
AVR Model	R150
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H - 125/40 C
Ingress Protection Rating	IP 23
Excitation System	Self Excited
Voltage Regulation	+/- 1%
Harmonic Coefficient THF	< 2.5%
Tel. influence TIF	< 50
Cooling air flow	0.48 m ₃ / Sec

Controller Make & Model		DeepSea 612
Operation Mode		AMF
Display		aphic Back-lit LCD !8x64) pixles
Ingress Protection Rating		IP65
Binary Inputs/Outputs		6 / 4
Analog Inputs		3
Measurement		Vac, A, Hz, kVA, kW, Vdc
Event Log		Alarms log, Hrs log
Communication		USB
Place refer to Controllor Data Shoot for more datails		

Please refer to Controller Data Sheet for more details.

Enclosure Type	Acoustic & Weather Proof
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	RAL 9010 - Powder coated
Base frame RAL Color	RAL 9011 - Powder coated
Noise Pressure level @	73db(A)+/-3db @ 7 mt

Distributed & Serviced by:





Open Type Image for illustration purposes only.

2. WARRANTY POLICY:

- Sun & Energy Generator technology products has a warranty for all prime equipment, limited to 2000 running hours or 12 months warranty & For Standby equipment, Limited to 500 running hours or 12 months warranty whichever occur first against manufacturing defect.
- Wearing parts (filters), incorrect man-made operation, Back up Genset maintenance failures are excluded from the warranty policy For more details please refer to
- https://www.sunergysolar.ae

. DOCUMENTAION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

4. OPTIONAL FEATURES

- A. Engine
- Heavy-Duty Air Filter
- Coolant Heater
- Lubricant Oil Heater
- Fuel and Water Separator
- Lube Oil Rotary Pump B. Alternator
- Anti Condensation Heater
- PMG + AVR
- Double Bearing Alternator
- RTDs For Bearing and Winding C. Cooling System:
- 55 degree Radiator
- Remote Radiator
- D. Control System:
- AMF / Parallel
- Remote Annunciators
- 4 p manual/Motorized Circuit breaker E. Automatic Transfer Switch (ATS):
- Contractor or Breaker type ATS
- Motorized changeover type ATS
- F. Start Battery:
- Nickel-cadmium battery • Maintenance-free battery
- Battery charger and selector switch
- Charging current meter G. Exhaust Muffler:
- Residential grade
- Critical grade
- Hospital grade H. Available for voltages :

400/230V,480/277V,380/220V,440/254V, 416/240V,220/127V, 208/120V

Due to continuous research & product development, we reserve the right to change specification with out notice