

Generating Set

TECHNICAL DATA SHEET



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.

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 2506A-E15TAG1	
Alternator Make /Model	Leroy Somer TAL-047-B	
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	865L	
Battery	Maintenance free Lead Acid	

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	4822	1722	2250	5016
Open Type	3500	1150	2215	3537

ENGINE SPECIFICATIONS		LUBRICATION SYSTEM			
Engine Make Model	PERKINS 2506A-E15TAG1		Oil Filter Type	pin-On Full Flow	
No. of Cylinders	6 vertical in-line		7.	•	
Cycle	4 Stroke		icon cu copacity	62 L	
Aspiration	Turbo	charged	Oil Type	API-CH-4 or ACEA E5	
Cooling Method	Water cooled		AIR SYSTEM		
Governing Type	Electronic		Air Filter Type	Dry Element	
Governing Class	G2 - ISO 8528 Part 1		Combustion Air Flow (PRP)	25.8 m ₃/min	
Compression Ratio	16:1				
Displacement	15.2 L		Combustion Air Flow	30.5 m ₃/min	
Bore/Stroke	137 x 171 mm		(ESP)		
Dynamic Charging Alter			Max Air Filter Intake Restriction	6.2 kPA	
COOLING SYSTEM			Exhaust System		
Total Coolant Capacity (L) 58 L		Muffler Type	Residential Grade		
Cooling Fan Air Flow		722 m ₃ / min Max. Back Pressure		6.8 kPa	
Radiator Fan Load 8.8 kW		Exhaust Gas Flow (PRP/ESF	71.4 /81m ₃ / min		
Cooling system design 50°C		50 ₀ C	Exhaust Gas Tempera-	< 550 oC	
Heat Radiation to Room (PRP) 27.2 kW		27.2 kW	ture		
	. ,		1		

Comply with Standards

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

Powered By: **Serkins** LEROY-SOMER Diesel Generator







Silent / Closed Type Image for illustration purposes only.

Why Sun & Energy Generator Technology (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
- 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.

(Contd.)



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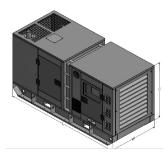
PERKINS Engine 2506A-E15TAG1



Leroy Somer TAL-047-B



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	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	104 L/hr
Fuel Consumption 100% PRP	95 L/hr
Fuel Consumption 75% PRP	72 L/hr
Fuel Consumption 50% PRP	50 L/hr

ALTERNATOR SPECIFICATION	IS
Alternator Make /Model	Leroy Somer TAL-047-B
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%
Tel. influence TIF	< 50
Cooling air flow	0.9 m₃/ Sec

Controller Make & Model		DeepSea 612
Operation Mode		AMF
Display		aphic Back-lit LCD 28x64) 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

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 @	75db(A)+/-3db @ 7 mt







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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

3. 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