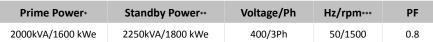


Generating Set

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 $period.\ Up\ to\ 300\ hours\ of\ annual\ usage\ may\ be\ run\ continuously.\ No\ overload\ is\ permitted\ on\ Standby\ power.\ Available\ in\ permitted\ on\ Standby\ power.\ Available\ permitted\ on\ Standby\ power.\ Available\ permitted\ on\ Standby\ power.\ Available\ permitted\ permitted\ on\ Standby\ power.\ Available\ permitted\ permitt$ 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 4016-61TRG2	
Alternator Make /Model	Leroy Somer LSA52.3 S6	
Control Panel	DSE 7320	
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant	
Circuit Breaker Type	3 Pole ACB (4P Available as optional)	
Built in Base Fuel Tank Capacity	N/A	
Battery	Maintenance free Lead Acid	

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	12192	2438	2896	26500
Open Type	6600	2250	2750	16500

NG N SP C F C T ONS		L BR C T ON S ST				
Engine Make Model	PERKII	NS 4016-61TRG2	Oil Filter Type	Sr	Spin-On Full Flow	
No. of Cylinders	16 60º Vee form		Total Oil Capacity		13 L	
Cycle	4 Stro	ke			PI-CH-4 or ACEA E5	
Aspiration	Turbocharged		Oil Type	Al	71-CH-4 OF ACEA ES	
Cooling Method	Water cooled		R S ST			
Governing Type	Electro	onic	Air Filter Type		PowerCore	
Governing Class	G2 - ISO 8528 Part 1		Combustion Air Flow (PRP)		158 m ₃ /min	
Compression Ratio	13:1		Combustion Air Flow			
Displacement	61.123 litres		(ESP)		175 m₃/min	
Bore/Stroke	160 x 190 mm					
Dynamic Charging Alternator	55AMP, 24V		Max Air Filter Intake Restriction		3.71 kPa	
COOL NG S ST		xhaust System				
Total Coolant Capacity (L)		252 L	Muffler Type		Residential Grade	
Cooling Fan Air Flow		TBD	Max. Back Pressure		4 kPa	
Radiator Fan Load 90 Kw		90 Kw	Exhaust Gas Flow		475 m₃/ min	
Cooling system design		50 ₀ C	Exhaust Gas		: 489 ₀C	
Heat Radiation to Room (PRP) 100 kW		100 kW	Tempera-ture			

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





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.)



Generating Set

TECHNICAL DATA SHEET



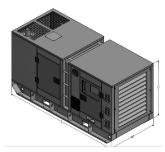
PERKINS Engine 4016-61TRG2



Leroy Somer LSA52.3 S6



DSE7320 MKII **AUTO START & AUTO MAINS**



SGT ENCLOSURE/ CANOPY

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

ngine Fuel System	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	463 L/hr
Fuel Consumption 100% PRP	405 L/hr
Fuel Consumption 75% PRP	306 L/hr
Fuel Consumption 50% PRP	208 L/hr

LT RN TOR SP C F C T ONS	
Alternator Make /Model	Leroy Somer LSA52.3 S6
AVR Model	D 510C
Number of Poles	4
Number of Winding Leads	12
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H - 125/40 C
Ingress Protection Rating	IP 23
Excitation System	AREP + PMI
Voltage Regulation	+/- 0.5%
Harmonic Coefficient THF	< 2%
Tel. influence TIF	< 50
Cooling air flow	2.5 m ₃ / Sec

Controller ake & odel	DeepSea 73
Operation Mode	AMF
Display	Graphic Back-lit LCD (132x64) pixles
Ingress Protection Rating	IP65
Binary Inputs/Outputs	9/8
Analog Inputs	4
Measurement	Vac, A, Hz, kVA, kW, Vdc
Event Log	Alarms log, Hrs log
Communication	USB

Please refer to Controller Data Sheet for more details.

nclosure Type	coustic & 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 @	TBD

Distributed & Serviced by:





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. W RR NT POL C :

- Noor 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. DOC

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

4. OPT ON LFTRS

- ngine
- Heavy-Duty Air Filter
- Coolant Heater
- · Lubricant Oil Heater
- Fuel and Water Separator
- Lube Oil Rotary Pump B. Iternator
- 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

. utomatic Transfer Switch (TS):

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
 Khaust uffler:
- Residential grade
- Critical grade
- Hospital grade

 H. vailable 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