



Gensets
Small Range

Perkins
THE HEART OF EVERY GREAT MACHINE

LEROY SOMER

Ratings @ 0.8 PF

**50 Hz
1500 RPM**

VOLTAGE	PRIME RATING	STANDBY RATING
400/3 Ph	100 KVA	110 KVA

NOTES

Prime Power

Unlimited hours usage with an average load factor of 75% of the published Prime power over each 24 hours period.

A 10% overload is available for 1 hour in every 12 hour operation.

Standby Power

Limited to 500 hours annual usage.

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.

Standards Compliance



Dimensions

	Open Type	Silent	Super Silent
Length:	1850mm	2670mm	4000mm
Width:	1000mm	1120mm	1320mm
Height:	1250mm	1570mm	1620mm
Weight:	1150kg	1450kg	2100kg

Technical Data

Diesel Generating Set

GENSET Make / Model	PERKINS T104C-44TAG2
Alternator Make / Model	Leroy Somer TAL 044D
Control Panel	DSE 6020
Base Frame / Canopy	Robust Structure / Corrosion Resistant
Circuit Breaker Type	3-Pole MCCB (4-Pole Available as option)
Built-In Fuel Tank Capacity (Silent)	205 L
Battery	100 A

Engine Specifications

Make & Model	PERKINS T104C-44TAG2
Cylinder & Arrangement	4; Vertical in-line
Cycle	4 stroke
Induction System / Aspiration	Turbocharged
Cooling System	Water cooled
Governing	Electronic
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	18.23:1
Displacement	4.4
Bore & Stroke	105 x 127 mm
Dynamic Charging Alternator	65 AMP, 12 V

Lubrication System

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	8.0 L
Oil Type	API CI-4

Cooling System

Total Coolant Capacity	12.6 L
Cooling Fan Air Flow	4.44 m ³ /s
Max Water Temperature	110°C
Cooling System Design	50°C
Heat Radiation to Room	7.5 kW

Air System

Air Filter Type	Dry Element
Max Air Filter Intake Restriction	8kPA

Exhaust System

Muffler Type	Industrial Grade
Max Back Pressure	18.0 kPA
Exhaust Gas Flow	16.3 m ³ / min
Exhaust Gas Temperature	≤543° C



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LERROY SOMER

Engine Fuel System

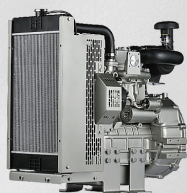
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	24.9 L/hr
Fuel Consumption @100% PRP	22.6 L/hr
Fuel Consumption @75% PRP	17.1 L/hr
Fuel Consumption @50% PRP	11.8 L/hr

Alternator Specifications

Alternator Make / Model	Leroy Somer TAL 044D
AVR Model	R120
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Excitation System	Self Excited
Ingress Protection Rating	IP23
Cooling Airflow	0.25 m ³ / Sec
Voltage Regulation	±1%
Harmonic Coefficient THF	< 2%
Tel. Influence TIF	< 50
Insulation Class	H



Controller



Engine



Alternator



Saccal Enclosure / Canopy

Controller Make / Model	Deep Sea 6020
Operation Mode	Auto-Start & AMF
Display	Graphic Backlit LCD (128x64px)
Ingress Protection Rating	IP65
Binary Inputs/Outputs	4/4
Analog Inputs	3
Measurements	Vac, A, Hz, KVA, KW, Vdc
Event Log	Alarms Log, Hrs Log
Communication	USB

Canopy Type	SILENT	SUPER SILENT
Enclosure Type	Acoustic & Weatherproof	
Drainage	Fuel and Water Drainage Provision	
Transportation	Tested Single Point Lifting Facility & Forklift Pockets	
Ingress Protection	IP23	
Lifting	ISO Standard Lifting	
Canopy RAL Color	RAL 9002 - Powder Coated	
Base Frame RAL Color	RAL 9005 - Powder Coated	
Noise Pressure Level db(A) @ 1m @ 75% Load	71	65

SACCAL TOOL BOX

Standard for every GenSet

- Heat Resistant Gloves
- Notebook
- Pen
- Tape Measure
- Baseball Cap
- Operation Manual
- Wiring Diagrams
- Sound Test (Upon Request)

Why Saccal Generators ?

Saccal Industries is one of the leading diesel generator OEM firms in the **MENA** Region.

With an impressive factory that spreads over an area of 30 thousand square meters in Bekaa & ISO certification, SACCAL has always been the leading name in the manufacturing and assembly of premium quality generating sets.

From planning and design, construction and production, to local and international sales, Saccal has more than 80 Years of experience.

Choose Right - Choose **Saccal**



SACCAL INDUSTRIES

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