



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 | 45 KVA | 50 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: | 1550mm | 2280mm | 3520mm |
| Width: | 750mm | 940mm | 1070mm |
| Height: | 1250mm | 1280mm | 1560mm |
| Weight: | 600kg | 1100kg | 1400kg |

Technical Data

Diesel Generating Set

| | |
|---|--|
| GENSET Make / Model | PERKINS 1103A-33TG1 |
| Alternator Make / Model | Leroy Somer TAL 042F |
| Control Panel | DSE 4520 |
| Base Frame / Canopy | Robust Structure / Corrosion Resistant |
| Circuit Breaker Type | 3-Pole MCCB (4-Pole Available as option) |
| Built-In Fuel Tank Capacity (Silent) | 100 L |
| Battery | 70 A |

Engine Specifications

| | |
|--------------------------------------|----------------------|
| Make & Model | PERKINS 1103A-33TG1 |
| Cylinder & Arrangement | 3; Vertical in-line |
| Cycle | 4 stroke |
| Induction System / Aspiration | Turbocharged |
| Cooling System | Water cooled |
| Governing | Mechanical |
| Governing Class | G2 - ISO 8528 Part 1 |
| Compression Ratio | 17.25:1 |
| Displacement | 3.3 |
| 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 | 8.3 L |
| Oil Type | API CI-4 |

Cooling System

| | | | |
|-------------------------------|------------------------|-------------------------------|--------|
| Total Coolant Capacity | 10.2 L | Cooling System Design | 50°C |
| Cooling Fan Air Flow | 2.53 m ³ /s | Heat Radiation to Room | 8.0 kW |
| Max Water Temperature | 110°C | | |

Air System

| | |
|--|-------------|
| Air Filter Type | Dry Element |
| Max Air Filter Intake Restriction | 3kPA |

Exhaust System

| | |
|--------------------------------|--------------------------|
| Muffler Type | Industrial Grade |
| Max Back Pressure | 10.0 kPa |
| Exhaust Gas Flow | 7.7 m ³ / min |
| Exhaust Gas Temperature | ≤537° C |



SACCAL INDUSTRIES

LEBANON BEIRUT
Rachid Karami st, Concorde Center
Telephone: +961 1 34 45 18
E-mail: industries@saccal.com

UAE SHARJAH
Business center, SPC, Publishing City
Telephone: +971 56 714 0510
E-mail: Saccaluae@saccal.com

IRAQ ERBIL
Street 100 - 3/57, Warsh
Telephone: +964 78 08416865 +964 75 02194846
+964 77 09887972 E-mail: erbil@saccal.com

BAGHDAD
Riyadh District Square - District 908 -
Street 25 - House 28
Telephone: +964 77 23813927
E-mail: baghdad@saccal.com





Gensets
Small Range

Perkins
THE HEART OF EVERY GREAT MACHINE

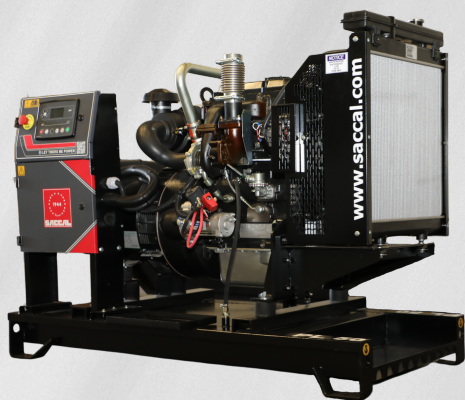
LERROY SOMER

Engine Fuel System

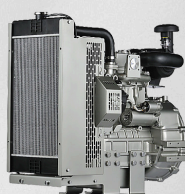
| | |
|----------------------------|-----------------|
| Recommended Fuel | Class A2 Diesel |
| Fuel Consumption Standby | 12.0 L/hr |
| Fuel Consumption @100% PRP | 10.7 L/hr |
| Fuel Consumption @75% PRP | 8.2 L/hr |
| Fuel Consumption @50% PRP | 5.7 L/hr |

Alternator Specifications

| | |
|---------------------------|---------------------------|
| Alternator Make / Model | Leroy Somer TAL 042F |
| 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 | 0.10 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 4520 |
| 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

LEBANON BEIRUT
Rachid Karami st, Concorde Center
Telephone: +9611 34 45 18
E-mail: industries@saccal.com

UAE SHARJAH
Business center, SPC, Publishing City
Telephone: +971 56 714 0510
E-mail: Saccaluae@saccal.com

IRAQ ERBIL
Street 100 - 3/57, Warsh
Telephone: +964 78 08416865 +964 75 02194846
+964 77 09887972 E-mail: erbil@saccal.com

BAGHDAD
Riyadh District Square - District 908 -
Street 25 - House 28
Telephone: +964 77 23813927
E-mail: baghdad@saccal.com

