

Genset
Model:

GW680RS & GW680RSC

T-Series

Enclosed set



| Frequency | Phase | Power Factor | Prime Output | Standby |
|-----------|-------|--------------|----------------|----------------|
| 50Hz | 3 | 0.8 | 620kVA / 496kW | 680kVA / 544kW |

Ratings

- Prime output: This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.
- Standby output: This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.
- Standard reference conditions: 25°C, 100m A.S.L. 30% relative humidity

Design Features

- High quality assembly, providing stiffness and low vibration
- Powder coated steel, treated with anti corrosion paint
- Compact and easy access for service
- Wiring and connectors with protection
- All moving parts protected with guards
- Synchronised upgrade options available
- Governor type: electronic / mechanical
- Battery charger and block heater options
- BMS output signaling included

Configuration

- 4-Stroke water-cooled diesel engine.
- Industrial / residential silencer
- Coolant recovery tank
- Single bearing, 4 pole brushless alternator
- Anti vibration mountings
- Integral fuel tank (with bunded base option)
- Fuel level gauge
- Auto start control system with electronic digital control module DSE7320
- ABB output circuit breaker.
- Emergency stop button
- High engine temperature and low oil pressure shutdown system.
- 12V / 24V starter battery with leads and isolator switch

Acoustic canopy features

- Weather proof enclosure
- Fully lockable doors and control panel
- High quality sound absorbing material
- Lifting lugs

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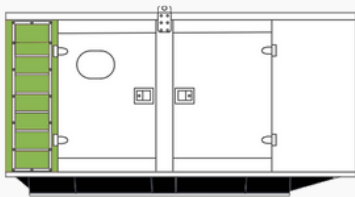
Engine data

| | | | |
|-------------------|----------------------------|--------------------------------|-------------------------|
| Engine brand | Perkins | Total coolant capacity | 61 Litres |
| Engine model | 2806A-E18TAG1A | Total lube oil capacity | 62 Litres |
| Engine speed | 1500 RPM | Cooling air flow | 702 m ³ /min |
| Cylinders | 6 | Exhaust gas flow | 104 m ³ /min |
| Aspiration | Turbo Charge - Intercooler | Exhaust gas temperature | 571°C |
| Combustion system | Direct injection | Fuel cons. @ 110% standby load | 134 l/hr |
| Displacement | 18.13 Litres | Fuel cons. @ 100% Prime load | 123 l/hr |
| Governor type | Electronic | Fuel cons. @ 75% Prime load | 90 l/hr |
| Cooling System | Water | Fuel cons. @ 50% Prime load | 61 l/hr |

Alternator data

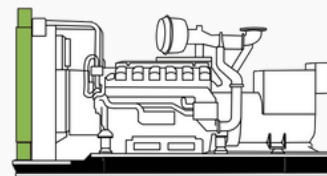
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|-----------------------|----------------|---------------------------|----------------|
| Alternator brand | Leroy Somer | Number of wires | 6 |
| Alternator model | TAL047F | Efficiency | 94.7% |
| Excitation | AVR, Brushless | Voltage regulation | ± 1% |
| Insulation class | H | Total Harmonic distortion | < 1.5% no load |
| Drip proof protection | IP23 | AVR | Brushless |
| Connection type | STAR | Power factor | 0.8 |

Enclosed set data



| W x L x H (mm) | Weight | Fuel tank | Noise@7M |
|--------------------|---------|------------|----------|
| 1650 x 5360 x 2450 | 5331 kg | 970 Litres | 81 db |

Open set data



| W x L x H (mm) | Weight | Fuel tank | Noise@7M |
|--------------------|---------|------------|----------|
| 1650 x 3500 x 2160 | 4190 kg | 970 Litres | N/A |

** The images are for illustration purposes only.

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