



S3.8-G9

Fuel Optimized



Description

The Cummins 'S Series' engine powered CoolPac sets offer the lowest cost of maintenance thereby proving to be the most economical power solution. With the robust design and integrated technologies, the S Series CoolPac can command an unrivalled reputation for reliability and performance.

The S series Engines have a distinguished reputation and long history for durability.

The rugged and reliable Cummins 'S Series' Engines gives you a compact high performance engine design for your generator application.



This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

Features

Bosch - Direct injection in-line pump for cleaner, more efficient fuel consumption.

12 volt electrics package as standard, with starter, alternator and fuel solenoid.

SAE '3/10' flywheel.

Low-Maintenance Fuel Filter Assembly – The Fuel filter Incorporates an integral water drain facility and a 500-hour filter life using standard Fleetguard® filters.

Cooling system - 55 Deg.C Limiting Ambient Temperature @ 0.5" H2O duct restriction.

Low-Maintenance Lube Oil Filter Assembly – The Lube Oil filter also has a 500-hour filter life using standard Fleetguard® filters.

Integrated Design - CoolPac products are supplied fitted with cooling package and medium duty air cleaner for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

1500 rpm (50 Hz ratings)

| Gross engine output | | | Net engine output | | | Typical generator set output | | | | | |
|---------------------|-------|------|-------------------|-------|------|------------------------------|-----|-------------|-----|------------|-----|
| Standby | Prime | Base | Standby | Prime | Base | Standby (ESP) | | Prime (PRP) | | Base (COP) | |
| kWm/BHP | | | kWm/BHP | | | kWe | kVA | kWe | kVA | kWe | kVA |
| - | - | - | - | - | - | - | - | - | - | - | - |

1800 rpm (60 Hz ratings)

| Gross engine output | | | Net engine output | | | Typical generator set output | | | | | |
|---------------------|---------|-------|-------------------|-----------|---------|------------------------------|------|-------------|-----|------------|-----|
| Standby | Prime | Base | Standby | Prime | Base | Standby (ESP) | | Prime (PRP) | | Base (COP) | |
| kWm/BHP | | | kWm/BHP | | | kWe | kVA | kWe | kVA | kWe | kVA |
| 59.5/80 | 54.5/73 | 45/60 | 61.5/82.5 | 55.5/74.5 | 39.5/53 | 50 | 62.5 | 45 | 56 | 31.5 | 39 |

General engine data

| | |
|-----------------------------|---|
| Type | 4 cycle, Inline, 4-cylinder, Turbocharged, Diesel |
| Bore mm | 97 mm (3.82 in.) |
| Stroke mm | 128 mm (5.0 in.) |
| Displacement litre | 3.8 litre (232 in. ³) |
| Cylinder block | Cast iron, 4 cylinder |
| Battery charging alternator | 12V, 40 amps |
| Starting voltage | 12 volt, negative ground |
| Fuel system | Direct injection |
| Fuel filter | Spin-on |
| Lube oil filter type(s) | Spin-on |
| Lube oil capacity (l) | 10 |
| Flywheel dimensions | SAE3/10 |

Coolpac performance data

| | |
|---|--|
| Cooling system design | Jacket Water Cooled |
| Coolant ratio | 50% ethylene glycol; 50% water |
| Coolant capacity (l) | 12.5 |
| Limiting ambient temp.** (°C) | 55 |
| Fan power (kWm) | 2.4 |
| Cooling system air flow (m ³ /s)** | 2.3 |
| Air cleaner type | Medium duty dry type, replaceable element with restriction indicator |

** @ 0.5" H2O

Fuel consumption 1500 (50 Hz)

| % | kWm | BHP | L/ph | g/kWh |
|-------------------------|-----|-----|------|-------|
| Standby Power | | | | |
| 100 | - | - | - | - |
| Prime Power | | | | |
| 100 | - | - | - | - |
| 75 | - | - | - | - |
| 50 | - | - | - | - |
| 25 | - | - | - | - |
| Continuous Power | | | | |
| 100 | - | - | - | - |

Fuel consumption 1800 (60 Hz)

| % | kWm | BHP | L/ph | g/kWh |
|-------------------------|------|------|------|-------|
| Standby Power | | | | |
| 100 | 59.5 | 80.0 | 16.0 | 4.0 |
| Prime Power | | | | |
| 100 | 54.5 | 73.0 | 14.0 | 4.0 |
| 75 | 40.5 | 54.5 | 10.5 | 3.0 |
| 50 | 27.0 | 36.5 | 7.5 | 2.0 |
| 25 | 13.5 | 18.0 | 5.0 | 1.5 |
| Continuous Power | | | | |
| 100 | 45.0 | 60.0 | 12.0 | 3.0 |

Weights and dimensions

| Length mm | Width mm | Height mm | Weight (dry) kg | |
|--------------|-------------|--------------|--------------------|------------|
| 1380 | 880 | 1250 | 560 | (Shipping) |
| 1288 | 789 | 1075 | 456 | (CoolPac) |

Ratings definitions

| Emergency Standby Power (ESP): | Limited-Time Running Power (LTP): | Prime Power (PRP): | Base Load (Continuous) Power (COP): |
|--|--|---|--|
| Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514. | Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528. | Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514. | Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514. |

For more information contact your local Cummins distributor or visit cummins.com

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