

Emission: Stage V

General Characteristics



| Item                   | Data              |
|------------------------|-------------------|
| Standby Power (kVA)    | 37                |
| Standby Power (kW)     | 30                |
| Prime Power (kVA)      | 37                |
| Prime Power (kW)       | 30                |
| Power Factor (Cos Phi) | 0.8               |
| Diesel Engine          | 3M18TG1/5         |
| Frequency (Hz)         | 50                |
| Rated Speed (rpm)      | 1500              |
| Phase                  | 3                 |
| Standard Voltage (V)   | 400/230           |
| Available Voltages (V) | 380/220 · 415/240 |

Power Definition

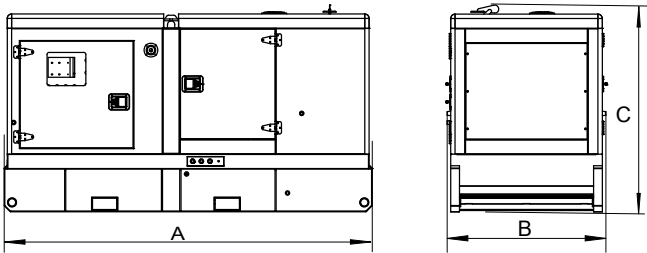
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

Terms of use

According to the standard, the nominal power assigned by the genset is given for 25 °C air inlet temperature, of a barometric pressure of 100 kPA (100m A.S.L) and 30%.

Dimensions & Weights & Fuel Tank



**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

| Model     | Constructure | Dim“A”mm | Dim“B”mm | Dim“C”mm | Dry Weight kg | Fuel Tank Capacity L |
|-----------|--------------|----------|----------|----------|---------------|----------------------|
| VR37-5-S5 | Open set     | /        | /        | /        | /             | /                    |
| VR37-5-S5 | Silent set   | /        | /        | /        | /             | /                    |

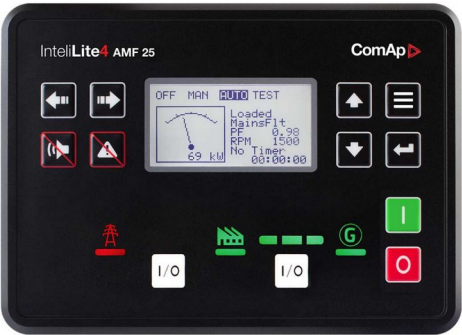
■ Engine Data

| General Engine Data                   |                              |
|---------------------------------------|------------------------------|
| Engine brand                          | RAYWIN                       |
| Engine model                          | 3M18TG1/5                    |
| Engine type                           | 4-stroke diesel              |
| Governor type                         | ECU                          |
| Injection type                        | Direct                       |
| Aspiration type                       | Turbocharged and intercooled |
| Number of cylinders and arrangement   | 3-L                          |
| Bore and stroke (mm*mm)               | 87*103                       |
| Displacement (L)                      | 1.8                          |
| Cooling system                        | Water-cooled                 |
| Lube oil consumption with full load   | ≤0.25%                       |
| Compression Ratio                     | 18:1                         |
| Air Filter                            | Dry                          |
| Fuel Consumption                      |                              |
| Fuel Consumption @100% load ESP (L/H) | 8.9                          |
| Fuel Consumption @100% load PRP (L/H) | 8.1                          |
| Fuel Consumption @75% load PRP (L/H)  | 6.1                          |
| Fuel Consumption @50% load PRP (L/H)  | 4.1                          |
| Air System                            |                              |
| Intake air flow (L/S)                 | 54.1                         |
| Cooling air flow (L/S)                | 0.8                          |
| Exhaust System                        |                              |
| Maximum exhaust temperature ( °C )    | 509                          |
| Exhaust gas flow ( L/S )              | 56.1                         |
| Maximum allowed back pressure (kPa)   | 20                           |
| Starting System                       |                              |
| Starting power(kW)                    | 1.8                          |
| Recommended battery (Ah)              | 60                           |
| Number of Batteries                   | 1                            |
| Auxiliary voltage (Vdc)               | 12                           |
| Oil System                            |                              |
| Engine oil capacity (L)               | 6                            |
| Cooling System                        |                              |
| Total coolant capacity (L)            | 7.5                          |

■ Alternator Data

| Alternator Data                |                                |
|--------------------------------|--------------------------------|
| Number of phase                | 3                              |
| Power factor (Cos Phi)         | 0.8                            |
| Poles                          | 4                              |
| Winding Connections (standard) | Star-serie                     |
| Insulation                     | H class                        |
| Enclosure(according IEC-34-5)  | IP23                           |
| Excitation system              | Self-excited, brushless        |
| Voltage regulator              | AVR (Electronic)               |
| No. of bearings                | Single bearing                 |
| Coupling system                | Flexible disc                  |
| Coating type                   | Standard (Vacuum impregnation) |

■ Control Module-AMF 25



The Intelilite AMF 25 offers:

- Flexible and efficient setup and monitoring using IntelliConfig, ComAp's PC configuration and monitoring tool
- Built-in PLC logic and PLC editor with easy-to-use drag and drop editing blocks
- Remote control and monitoring of your gen-set operations from anywhere, anytime with WebSupervisor, our cloud-based fleet management tool
- AirGate for easy connection to your equipment remotely, without worrying about your asset's IP address
- Event-based history with 350 records for fast and easy troubleshooting
- Stand-by and prime power application control from one unit

- Slots for plug-in modules for 4G, Ethernet, RS232/485 connections and additional binary inputs and output
- CAN module extensions
- More precise measuring with a True Root Mean Square measurement feature
- Zero power mode to avoid battery drainage for prime power applications
- Multi-purpose maintenance timers and exercise timers with a back-up RTC battery
- Compatibility with remote displays
- Modbus register mapping
- Dual mutual stand-by and prime power application support
- Multilingual support
- Optional geofencing feature helping with efficient unit tracking and theft prevention

Application overview

