

Emission: Stage V

General Characteristics



Item	Data
Standby Power (kVA)	20
Standby Power (kW)	16
Prime Power (kVA)	20
Prime Power (kW)	16
Power Factor (Cos Phi)	0.8
Diesel Engine	3M18TG5/5
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

Power Definition

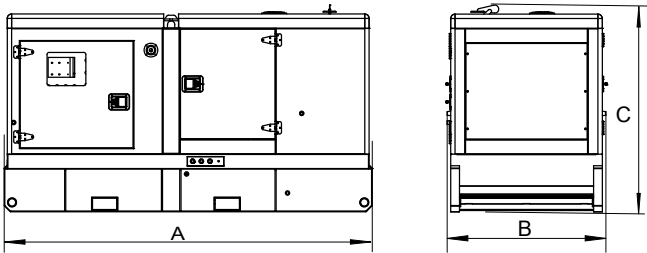
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
VR20-5-S5	Open set	/	/	/	/	/
VR20-5-S5	Silent set	/	/	/	/	/

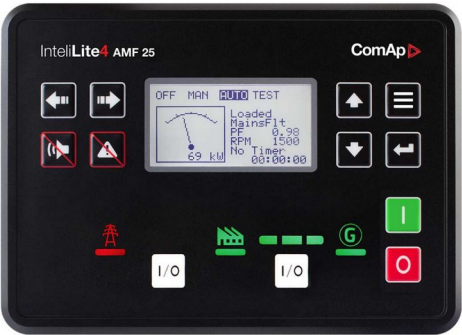
■ Engine Data

General Engine Data	
Engine brand	RAYWIN
Engine model	3M18TG5/5
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharged with 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)	4.8
Fuel Consumption @100% load PRP (L/H)	4.3
Fuel Consumption @75% load PRP (L/H)	3.2
Fuel Consumption @50% load PRP (L/H)	2.2
Air System	
Intake air flow (L/S)	29.3
Cooling air flow (L/S)	0.8
Exhaust System	
Maximum exhaust temperature (°C)	365
Exhaust gas flow (L/S)	30.4
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

