

Emission: Stage V

General Characteristics



Item	Data
Standby Power (kVA)	438
Standby Power (kW)	350
Prime Power (kVA)	400
Prime Power (kW)	320
Power Factor (Cos Phi)	0.8
Diesel Engine	C13ETVP03.A395
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240

Power Definition

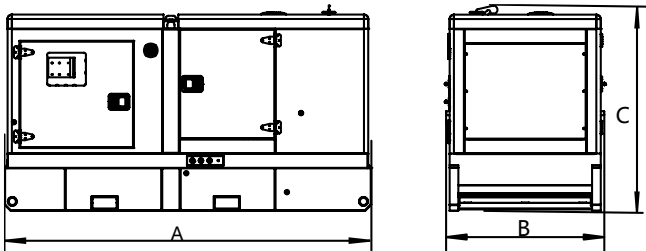
Standby Power(ESP): The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

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
VFP438-5-S5	Open set	3730	1155	2005	3041	750
VFP438-5-S5	Silent set	4750	1450	2500	4110	750

■ Engine Data

General Engine Data	
Engine brand	FPT
Engine model	C13ETVP03.A395
Engine type	4-stroke diesel
Governor type	ECU
Injection type	Direct
Aspiration type	Turbocharged and aftercooled
Number of cylinders and arrangement	6-L
Bore and stroke (mm*mm)	135*150
Displacement (L)	12.9
Cooling system	Water-cooled
Lube oil consumption with full load	≤0.25%
Compression Ratio	16.5:1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @100% load ESP (L/H)	91.8
Fuel Consumption @100% load PRP (L/H)	83.3
Fuel Consumption @80% load PRP (L/H)	66.6
Fuel Consumption @50% load PRP (L/H)	42.7
Air System	
Intake air flow (L/S)	407.2
Cooling air flow (L/S)	/
Exhaust System	
Maximum exhaust temperature (°C)	500
Exhaust gas flow (L/S)	426
Maximum allowed back pressure (kPa)	29
Starting System	
Starting power(kW)	/
Recommended battery (Ah)	120
Number of Batteries	2
Auxiliary voltage (Vdc)	24
Oil System	
Engine oil capacity (L)	28
Cooling System	
Total coolant capacity (L)	41

■ 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 IntelLite 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

