

MAIN FEATURES

Highest quality and reliability.

ComAp IntelliLite AMF 25 controller.

Ready to control MAINS – GENERATOR transfer switch.

Configured for both manual and automatic mode (MRS + AMF).

Wide range of remote communications options.

Wide range of standard and optional equipment.

Engine heater – ready to load just after start.

Drip tray,

Anticorrosion coating: frame - Zr, canopy – Zr, Al-Zn.

Brushless alternator.



Sample photos, details of devices may slightly differ from the illustrations.

GENERAL DATA

Standby power ESP [kVA] / [kW]	18,9 / 15,1
Prime power PRP [kVA] / [kW]	17,2 / 13,8
Prime current PRP [A]	24,8
Frequency [Hz]	50
Voltage [V]	400
Exhaust emission	Stage V
Fuel type	Diesel (EN 590)
Fuel consumption - 50% load [l/h]	2,7
- 75% load [l/h]	3,9
- 100% load [l/h]	5,2
- 110% load [l/h]	5,7
Engine control voltage [V]	12
Standard fuel tank capacity [l]	140
Autonomy with 100% load [h]	25,7
Design	S1902T140

Generator version	open	canopy
Model	FD 18 M5-ST1	FD 18 M5-ST
Weight without fuel [kg]	~520	710
Dimensions L x W x H [mm]	1900 x 850 x 1230	1900 x 850 x 1400
Guaranteed noise power Lwa [dBA]		87
Acoustic pressure @7m Lpa [dBA]		58,3 ± 1

Nominal power PRP:

Prime power available in variable load application in accordance with ISO 8528, 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24h of operation.

Stand-by power ESP:

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 200 hours of operation per year, average power consumption should not exceed 70% ESP for each 24 of operation

Remark:

Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1.

Norms and directives:

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EU
- EMC directive 2014/30/EU
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1/2018, ISO 8528-5/2018
- ISO 8528-13:2016
- IEC 60204-1

Power Generator FD 18 M5-ST

STANDARD CONTROLLER

Controller type: ComAp IntelliLite AMF 25

Easy to operate, intuitive graphical interface

Real time clock with battery supply

Stan-by and Prime power applications, AMF function available

Flexible event based history with up to 350 events

3 Phase generator current measurement

Generator and Mains phase voltage measurement

Active/reactive power measurement

Active and reactive energy counter

Running hours counter, multipurpose flexible timers

Battery charging alternator circuit connection

Comprehensive gen-set protections

Wide range of communication capabilities including :

- CAN and USB on board
- Internet access using Ethernet, GPRS or 4G module
- Support for Modbus and SNMP protocols

Cloud-based monitoring and control via WebSupervisor

Active SMS or e-mails (module required)

Geofencing and tracking via WebSupervisor

Operating temperature -20 + 70°C

IP65 operator interface protection



ENGINE

Brand	Mitsubishi
Type	S4L2-Z5T61SD
Made in	India
Engine power [kW]	16,0
Emission standard*	stage V
Rotation per minute [rpm]	1500
Engine governor	mechanical
Governor class**	G1
Displacement [l]	1,8
No of cylinder	4
Fuel system	
Electrical system [V]	12
Cooling system capacity [l]	2,5
Oil pan capacity [l]	6,0
Fuel type	Diesel (EN 590)

ALTERNATOR

Nominal Voltage [V]	400
Nominal power factor (cos phi)	0,8
Ambient temperature, altitude	40 °C, 1000m a.m.s.l
Nominal Power [kVA]	17,5
IP protection	IP 23
No of bearing	single bearing
Coupling	direct
Technology	brushless
Short circuit maintaining capacity	270% 10s
Efficiency [%]	86,1
Insulation class	H
Total harmonic content THD [%]	<3,5
Reactance Xd'' [%]	7,7
Voltage regulator type	DVR, digital
Voltage measurement	3 phase
Voltage accuracy [%]	+/- 0,5
AVR supply system	auxiliary winding
Made in	EU

* According directive 97/68/WE non road mobile machinery engine emission.

** According PN-ISO 8528-5/2018

