

TP313 60Hz

POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 220/127V-60Hz-3Phase

Model	TP313	
Power(ESP)	kVA/kW	313/250
Power(PRP)	kVA/kW	281/225
Starter Voltage	V	24
Rated Current	A	788
Rated rotation speed	r/min	1800
Power Factor	-	0.8
Fuel Consumption	L/h	62
Fuel Tank Capacity	L	OPEN:421L,SLIENT:686L
Noise level	dB(A)@1m	Silent Type: ≤84

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2550mm×980mm×1670mm	2329 kg
Silent Type	3856mm×1256mm×2073mm	3279 kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: LEROYSOMER, LSA 46.3 S5

Diesel Engine: CUMMINS , 6LTAA8.9-G3

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).



ENGINE Specification

Manufacturer: CUMMINS

Model	6LTAA8.9-G3
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6 / L
Displacement	8.9 L
Bore and Stroke	114mm×145mm
Compression ratio	16.6 : 1
Max. stand by power at rated RPM	282kW
Frequency regulation , steady state	≤1%
Governor : type	Electronic
Aspiration and Cooling	Turbo-charged and Air to Air After-cooled

Exhaust System

Exhaust gas flow	735L/s
Exhaust temperature	477°C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	62 L / h
Fuel consumption75% (of the Prime Power)	46 L / h
Fuel consumption50% (of the Prime Power)	31 L / h
Fuel consumption25% (of the Prime Power)	18 L / h

Oil system

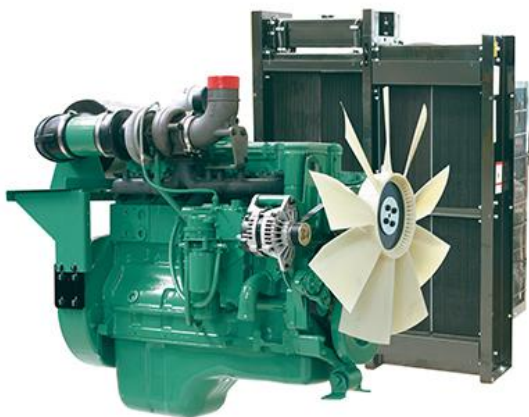
Total oil capacity w/filters	27.6 L
------------------------------	--------

Air intake

Engine air flow	292L/s
-----------------	--------

Coolant System

Radiator & engine capacity	60.6 L
Max water temperature	104°C
Thermostat	82-95°C



- Cummins engines with advanced design, reliable performance, durable operation.
- Alloy-steel and connecting steel-lever, high durability
- High combustion efficiency and low fuel consumption, work continuously
- P/T pump injection technology, low cost, completely combustion

Note: All data sheets are for reference only
and subject to change without prior notice.



ALTERNATOR Specification

Manufacturer: LEROY SOMER

Type	LSA46.3 S5
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	SHUNT
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	R250
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

FEATURES

- Tight control of procedures right from the initial sales offering through to delivery to the customer, including the design process, manufacturing start-up and production.
- A total quality policy based on making continuous progress in improving operational procedures, involving all departments in the company in order to give customer satisfaction as regards delivery times, conformity and cost.
- Indicators used to monitor process performance.
- Corrective actions and advancements with tools such as FMECA, QFD, MAVP,
- MSP/MSQ and Hoshin type improvement workshops on flows, process re-engineering, plus Lean Manufacturing and Lean Office.
- Annual surveys, opinion polls and regular visits to customers in order to ascertain and detect their expectations.

STANDARDS

IEC 60034, NEMA MG 1.32 - 33, ISO 8528/3, CSA, UL 1446, UL 1004 on request and depending on voltages, marine.

Note: All data sheets are for reference only and subject to change without prior notice.



Control Panel

Model: AMF 25

AUTOMATIC MAINS FAILURE CONTROLLER

InteliLite® controllers are equipped with a powerful graphic display. Icons, symbols and bar graphs for intuitive operation together with high functionality set new standards in gen-set control. Special low temperature (IL-AMF 20-LT or IL-AMF 25-LT) version is also available, allowing the display to work up to -300C.



KEY FEATURES

- Support of engines equipped with Electronic Control Unit (J1939 interface)
- Comprehensive diagnostic messages; SPN/FMI codes; KWP2000 support
- Automatic or manual start/stop of the gen-set
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display 128x64 pixels
- 6 LED indicators
- Parameters adjustable via keyboard or PC
- Mains measurements (50/60 Hz): U1-U3, Hz
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- Selectable protections alarm/shutdown
 - Over-/under voltage
 - Over-/under frequency
 - Current/voltage asymmetry
 - Overcurrent/overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface (AT-LINK CONV cable is necessary for IL-AMF 20)
- Modem communication support (IL-AMF 25 only)
- Dimensions 180x120 mm (front panel)
- Sealed to IP65

KEY BENEFITS

- Less wiring and components
- Integrated solution
- Less engineering and programming
- Perfect price/performance ratio