

Standard Specification

MJS31-1

General features:

- *Imported John Deere engine
- * Stamford single-shaft alternator
- * Standard SAE coupling of the engine and alternator
- * Preinstalled high efficiency anti-vibration devices
- * Cold rolled steel one time molded base
- * Steel base fuel tank with a 6-8 hour capacity at full load
- * Standard ABB circuit breaker
- * 8100 manual control system



Specification:

Generator set	Genset model	MJS31-1
	Prime /standby output (KVA)	31 / 35
	Prime/standby output (KW)	24.8 / 28.5
	Power factor	0.8 (lagging)
	Frequency(Hz)	50
	Rated Voltage (V)	400/230
	Max (prime/standby) rated power	45 / 51
	Dimension (L*W*H) (mm)	1500×700×1308
	Net weight and gross weight (kg)	668/685 (gross weight is the total weight of genset and fuel)
	Capacity of base fuel tank (L)	130
Engine	Manufacturer	John Deere
	Model	3029DF128
	Number of Cylinder	3
	Cylinder arrangement	L
	Bore X Stroke (mm)	106/110
	Total capacity (L)	2.9

	Compression ratio	17.8:1
	Aspire	Natural Aspired
	Speed governor	Mechanical (Electronic speed governor optional)
	Start method	DC12V
	Max allowed back pressure (kPa)	7.5
	Cooling method	close type water cycling
	Total capacity of cooling water(L)	16
	Normal working temperature of cooling water (°C)	82-94
	Cooling water steam (L/sec)	1.52
	Rated Speed (RPM)	1500
	Max power (kW)	31
	Fuel consumption (L/h)	6.67 / 8.16
	Fuel consumption rate (g/kwh)	227 / 249
	Oil grade	above API-CD
	Total oil capacity (L)	12
	Oil consumption (L/h)	0.03 / 0.04
	Oil temperature (°C)	115
	Exhaust temperature (°C)	555 / 610
Alternator	Manufacturer	NEWAGE (STAMFORD)
	Model	BCI184G
	Voltage regulation	≥±6%
	Temperature raise	H
	Insulation class	H
	Protection grade	IP23
	Alternator efficiency	87%
	Telephone influence factor	THF<2%, TIF<50
	Excite Type	Brushless, self exciting (PMG optional)
	Voltage regulation, Stead State	≤±1.5%
	Voltage control type	AVR (AS440)

Control System:

8100 model : This series provide manual and auto control of genset and auto monitor of the genset status, features such important protections as Low Oil Pressure, High Engine Temperature, Overspeed shutdown and Charge Fail warning, the analog gauges measure engine parameters such as Oil Pressure, Engine Temperature and battery voltage, generator parameters such as frequency, 3Ph Line to Line ,Line to Neutral voltage, and 3Ph current, The panel also possesses Automatic Mains Failure(AMF) and mains battery charger functions. There is a red mushroom-head Emergency Stop pushbutton to stop the genset immediately in severe conditions, and a mode selector switch to change the operation modes between “MAN” and “AUTO” on front panel. All components are test or inspect strictly by Quality Control Department as per our quality standards, thus contribute to the long time trouble free and reliable service.

