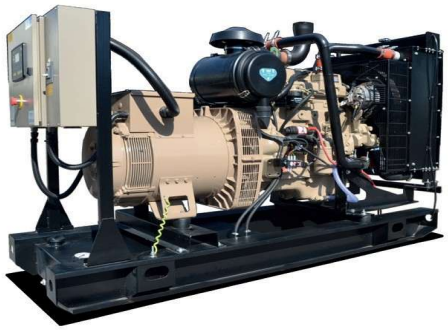
MEGA POWER
شركة ميقا الطاقة

MPR-J145

Generating Set
(Technical Data Sheet)



Standard Specifications

01 Prime Rating:
Unlimited hours usage, with an average load factor of 80% over each 24-hour period. 10% overload is available for 24-hour in every 12 hours operation. 0 overload is permitted on standby power.

02 Standby Rating:
Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over 24-hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

03 Engine:
John Deere , including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

04 Alternator:
Brushless AC Alternator.

05 Radiator:
50 °C Mounted Radiator, piping and guards.

Output Rating

PRIME:		STANDBY:	
60 Hz—1800 Rpm 380V, 3ph			
131.8 kVA	105.44 kW	145 kVA	116 kW

Engine Specifications

Engine Make	John Deere
Engine Model	4045HFG2 – CD24979
Number of cylinders	4 Vertical In-line
Induction System	Turbo Charged- Aftercooled
Combustion	Direct injection
Cycle	4 Stroke
Cooling Method	Water Cooled
Governing Type	Mechanical
Governing Class	G2 ISO 8528
Compression Ratio	17.0:1
Displacement	4.5 Liters
Lube Oil Capacity	20.5 Liters
Bore & Stroke (mm)	106 X 127

Alternator Specifications

Alternator Make	Leroy Somer
Alternator Model	TAL-044-H
Number of Poles	4
Number of Winding Leads	6 wires
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H – 125 K
Ingress Protection Rating	IP 23
Excitation System	Self Excited
AVR Model	R120

Alternator Operating data

Over Speed	2250 rpm
Voltage Regulation	+ 1%
Total Harmonic Distortion THD	< 2 %

Powered By:

JOHN DEERE

LEROY SOMER

DSE

Complying with Standards
ISO 8528-1, ISO 8528-8, ISO 6272, IEC 60355, BS 2869, IEC 600364, IEC 17025

Standard Specifications:

06 **Fuel Tank:**
Built in Tank with the Capacity of 8-10 hours running on full load.
Standard for all Gensets below 800 KVA.

07 **Circuit Breaker:**
3 Poles, MCCB

08 **Control system alarms:**
Over and Under Speed
Low and High Battery Volt.
Start and Stop Failure
Over Current
Under / Over Generator Voltage
Low Oil Pressure
Emergency stop
High engine temperature

09 **Warranty policy:**
Mega Power products has a warranty for 12 Months or 1000 Hours whichever occurs first against any manufacturing defects Non-Genuine parts, incorrect operation, maintenance failures are excluded from the warranty policy

Closed Type Enclosure Specs:

This canopy is composed of sectionalized steel sheets and components of 2 mm thickness with ability to dismantle all parts.

All canopy parts are coated with Heat-treated highly corrosion-resistive powder coating White (RAL 9010) and Black (RAL 9005) colours.

Stainless-Steel Locks and Black Zinc Die-Cast Hinges.

5 cm Fiber Glass for Sound Insulation.

Plexiglas window for external viewing of the control panel fitted in a lockable door

Radiator-fill access through a special plastic cap on the top of the enclosure.

Lube Oil Pipe outlet to allow easy drainage.

Control System:

Large back-lit text display	Generator/load current monitoring and protection (kW)
Multiple display languages	Breaker contol via fascia buttons
DSENET expansion compatible	Fuel and start outputs, configurable using can
Data logging facility	4 configurable DC outputs
Fully configurable via PC using USB communication	4 configurable analogue/digital inputs
Front panel configuration	Automatically transfers between mains (utility) and generator
Efficient power save mode	Increased input and output expansion capability via dsenet
3 phase generator sensing	IP65 rating (with optional gasket) offers increased resistance to water ingress
Accumulated power monitoring (kWh, kVA h,kVAr h)	Digital inputs; Analogue Inputs

DSE 6110 MKIII

Auto start
AMF
CONTROL



Dimensions:

Type	Open	Closed
Length (mm)	2200	2770
Width (mm)	800	1030
Height (mm)	1500	1750
Fuel Tank (L)	117	140
Weight (KG)	1250	1860

* Closed Type enclosure dimensions may vary.



Engine:

John Deere heavy duty high-performance industrial type diesel engine



COOLING SYSTEM	
Coolant Capacity (L)	17
Cooling fan Air Flow	4.2 m3/s

EXHAUST SYSTEM	
Emissions regulations	Best Fuel consumption
Max. Back Pressure (KPa)	7.1
Max Exhaust Gas Flow (m3/min)	28.4
Exhaust Gas Temperature	525

FUEL CONSUMPTION 1800 (60 HZ)	
Fuel Consumption @ 100%	31.4 L/hr
Fuel Consumption @ 75%	23.9 L/hr
Fuel Consumption @ 50%	16.9 L/hr
Fuel Consumption @ 25%	8.5 L/hr

Optional configurations:

Engine accessories:

- Heavy-duty air filter.
- Water Jacket Heater.
- Lubricant / Fuel Heater,
- Racor Filter
- Oil Drain Pump.

Alternator And Accessories:

- 12 Wires Alternator.
- Space Heater,
- Permanent Magnet PMG.
- Double bearing Alternator.
- Medium Voltage Alternator,
- RTDs for Bearing and winding

Control System:

- DSE 4520, 6020, 6120, 7320
- DSE 8610.
- DSE Gateway 890.
- Extended inputs / Outputs.
- Remote Annunciators
- Comap, Woodward, Deif

Start Battery:

- Nickel-cadmium battery.
- Disconnector Switch,
- Battery charger.
- Charging current meter.

Circuit Breaker:

- 4 Poles MCCB.
- Motorized MCCB.
- ACB / Motorized.

External Fuel Tank:

- MS Steel Fuel Tanks (500-10000 L).
- Fuel Transfer pump.
- Double Wall / UL Special Tanks.

Exhaust Muffler:

- Residential Silencer.
- Critical Silencer.
- Spark Arrestors.

Cooling System:

- 55 -degree Radiator.
- Remote Radiator.

Automatic Transfer Switch (ATS):

Contactor Type, Motorized MCCB Type, Motorized ACB Type, Motorized changeover type ATS.

Available for voltages :

400/230V, 480/277V, 380/220V, 440/254V, 416/240V,220/127V, 208/120V & 4 KV up to 13.8 KV

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