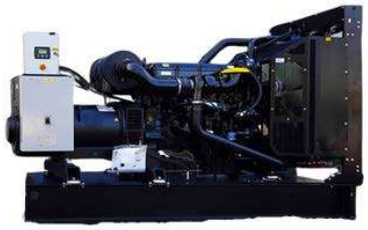
MEGA POWER
شركة ميقا الطاقة

# MPR-P346

## 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:**
Perkins, 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 400V, 3ph | | | |
| 315 kVA | 252 kW | 346 kVA | 276.8 kW |

**Powered By:**

Perkins
Diesel Generator

LEROY SOMER

DSE

### Engine Specifications

| | |
|---|---|
| Engine Make | Perkins |
| Engine Model | 1506A-E88TAG4 |
| Number of cylinders | 6 Vertical In-line |
| Aspiration | Turbocharged Aftercooled |
| Cooling Method | Water Cooled |
| Governing Type | Electronic |
| Governing Class | G2 ISO 8528 |
| Compression Ratio | 16.1:1 |
| Displacement | 8.8 Liters |
| Bore/Stroke | 112 x 149 mm |
| Charging Alternator | 24 Volts, 45 Amperes |
| Lube Oil Filter | Spin on full flow filter |
| Lube Oil Capacity | 41 Liters |

### Alternator Specifications

| | |
|---|---|
| Alternator Make | Leroy Somer |
| Alternator Model | TAL-A46-E |
| 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 | R150 |

**Alternator Operating data**

| | |
|---|---|
| Over Speed | 2250 rpm |
| Voltage Regulation | ± 1% |
| Total Harmonic Distortion THD | < 3.5 % |

**Complying with Standards**
**ISO 3046, BS 5514, DIN 6217, NEMA_MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2**

# 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, Molded Case Circuit Breaker

**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:

| Enclosure Type | Acoustic & Weather Proof |
|---|---|
| Drainage Provision | Fuel and Water Drainage |
| Transportation | Tested Single Point Lifting Facility & Forklift Pockets |
| Ingress Protection Rating | IP 23 |
| Lifting | ISO Standard Lifting |
| Canopy RAL Color | TAL 9010 |
| Base frame RAL Color | RAL 9011 |
| Noise Pressure level | 83 dB(A) @ 7 meter |

# 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 MKII**
Auto start
AMF
CONTROL



# Dimensions:

| Type | Open | Closed |
|---|---|---|
| Length (mm) | 3080 | 4414 |
| Width (mm) | 1200 | 1614 |
| Height (mm) | 1830 | 2235 |
| Fuel Tank ( L ) | 668 | 760 |
| Weight (KG) | 2780 | 3440 |

* Closed Type enclosure dimensions may vary.



## COOLPAC PERFORMANCE DATA

| | |
|---|---|
| Cooling System Design | Water-Cooled, Thermostatically Controlled |
| Coolant Ratio | 50% ethylene gylcol; 50% water |
| Coolant Capacity (L) | 33.2 |
| Limiting Ambient Temp | 50 Degree Celsius |
| Cooling Fan Air Flow | 482 m3/min |
| Air Cleaner Type | Dry-type Air Cleaner |

## FUEL CONSUMPTION 1800 (60 HZ)

| | |
|---|---|
| Fuel Consumption @ standby | 75 L/hr |
| Fuel Consumption @ 100% | 68.2 L/hr |
| Fuel Consumption @ 75% | 51.1 L/hr |
| Fuel Consumption @ 50% | 35.7 L/hr |

# Engine:

**Perkins heavy duty high performance industrial type diesel engine**



# 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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