



KP / Series

Powered by Perkins Engines

KP200/KP220E Diesel Generating Set

50Hz

| Prime Rating | Standby Rating | Dimensions (L×W×H mm) | Weight (Kg) | Fuel - Hours of Run-time |
|--------------|----------------|-----------------------|-------------|--------------------------|
| 200kVA/160kW | 220kVA/176kW | 2530×950×1800 | 2007 | 6-8 hr |

| Standard Configuration | Test Condition and Standards |
|--|---|
| <ul style="list-style-type: none"> Engine (Perkins) Channel Steel Base 12V Charging Alternator GE Circuit Breaker 12V Starter Battery and Connecting Cable Flexible Pipe, Exhaust Elbow, Industrial Silencer, etc. | <ul style="list-style-type: none"> Ambient Temperature: ≤27°C Relative Humidity: ≤60%, Altitude: ≤1000m Engine: ISO3046, DIN6271, BS5514 Alternator: VDE0530, BS5000, NEMA MG1-32, IEC34 Generator: ISO8528, GB2820 Generator O&M Manuals |
| <ul style="list-style-type: none"> Alternator (Mecc Alte) 50°C Radiator Air Filter, Diesel Fuel Filter, Lube Oil Filter Control Panel | |

Generating Set Output Rating

| Voltage (V) | Hz | Phase | PF | Max. Current (A) | Prime (kVA/kW) | Standby (kVA/kW) |
|-------------|----|-------|-----|------------------|----------------|------------------|
| 415/240 | 50 | 3 | 0.8 | 307 | 200/160 | 220/176 |
| 400/230 | 50 | 3 | 0.8 | 318 | 200/160 | 220/176 |
| 380/220 | 50 | 3 | 0.8 | 335 | 200/160 | 220/176 |

Engine Technical Data

TPD1747E3, 8-2014

| | | | |
|-----------------------|---------------------|--------------------------|---------|
| Model: | 1106A-70TAG4 | Max. Power (kW): | 191.3 |
| Induction System: | Turbo-charged | Displacement (L): | 7.01 |
| Cylinder Arrangement: | In Line, Four Cycle | Bore (mm) × Stroke (mm): | 103×135 |
| Number of Cylinders: | 6 | Compression Ratio: | 16:1 |
| Governor Type: | Electrical | Speed (RPM): | 1500 |

Air System

| | | |
|--|-------------|---------------|
| Combustion Air Flow (M ³ /min): | Prime: 12.6 | Standby: 13.2 |
|--|-------------|---------------|

Exhaust System

| | | | |
|--|-----------|----------------------------|-----|
| Combustion Gas Flow (M ³ /min): | 34.9/36.8 | Max. Back Pressure (kPa): | 6.0 |
| Exhaust Gas Temperature (°C): | ≤550 | Exhaust Outlet Size (mm) : | 76 |

Lubrication System

| | | | |
|------------------------------|------|----------------------------------|-----------------|
| Total Oil Capacity (L): | 16.5 | Oil Consumption 100% Load (L/h): | 0.046/0.049 |
| Normal Oil Temperature (°C): | 125 | Recommended Oil: | API CF-4 15W/40 |

Cooling System

| | | | |
|--|-------|-------------------------------|-------------|
| Cooling System Capacity (L): | 37.2 | Max. Coolant Temperature(°C): | 110 |
| Thermostat Operation Range (°C): | 82-93 | Radiator Fan Drive Type: | Shaft Drive |
| Radiator Cooling Air Flow (M ³ /min): | 252 | Radiator Power (kW): | 5.0 |



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Fuel System

| | | | |
|-----------------------------------|--------|-----------------------------------|-------------------------------|
| Fuel Injection Pump: | DP210G | Recommended Fuel: | BS2869:1998 , Class A2 Diesel |
| Fuel Consumption 100% Load (L/h): | 45.8 | Fuel Consumption 110% Load (L/h): | 49.4 |

Engine Electrical System

| | |
|----------|-------|
| Voltage: | 12Vdc |
|----------|-------|

Alternator Physical Data

| | | | |
|----------------------------------|----------------------------|-----------------------------|-------|
| Model: | ECO38-2S/4A | Rated Power (kVA): | 220 |
| Phase: | 3 | No. of Bearings: | 1 |
| Excitation System: | Self-Excited and Brushless | AVR: | DSR |
| Connection: | 3P 4W, Series Star | Insulation Class/Temp Rise: | H/H |
| Power Factor: | 0.8 | Wave form NEAM=TIF: | <40 |
| Ingress Protection Rating: | IP23 | Wave form IEC=THF: | <2% |
| Winding Pitch: | 2/3 | Voltage Regulation: | ±1% |
| Cooling Air (M ³ /s): | 0.533 | Efficiency: | 92.7% |

Option

Engine

- Jacket Water Heater
- Heavy Duty Air Filter
- Lube Oil Heater
-

Control Panel

- Auto Control Panel
- Intelligent Remote Control Panel
- Intelligent Paralleling Control Panel
- Buzzer, Space Heater Control Panel

Alternator

- Leroy Somer
- Marathon
- Cooltech
- PMG
- Anti-condensation Heater

ATS

- ATS (G+M)
- ATS (G+G)
- ATS (G+G+M)
- ATS Controller
-

Accessory

- Hybrid Silencer
- Residential Silencer
- Day Tank
-
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Canopy

- Soundproof (Container/Enclosure)
- Trailer
- Truck/Lighting Truck
- Container Protected
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Spare Parts

- | | |
|--|--|
| <input type="checkbox"/> 500h Spare Parts | <input type="checkbox"/> 2000h Spare Parts |
| <input type="checkbox"/> 1000h Spare Parts | <input type="checkbox"/> 3000h Spare Parts |
| <input type="checkbox"/> 1500h Spare Parts | <input type="checkbox"/> |

Warranty

The standard warranty period: One year after ex-works from factory or 1500 operation hours whichever occurs first.

Please refer to COOLTECH warranty manual for details.

Consumable parts (air filter, fuel filter, lube oil filter, fan belt), this warranty does not apply to malfunctions caused by damage, misuse, repair or service by unauthorized person. Cooltech Global must authorize any and all warranty repairs prior to commencement.

* The model name and output rating figures are base on 400V and may have a 2% deviation
* Specifications subject to change without prior notice



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