



# KP / Series

## Powered by Perkins Engines

### KP150/KP165E Diesel Generating Set

### 50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H mm)	Weight (Kg)	Fuel - Hours of Run-time
150kVA/120kW	165kVA/132kW	2300×900×1470	1487	6-8h

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

#### Generating Set Output Rating

Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	229	150/120	165/132
400/230	50	3	0.8	238	150/120	165/132
380/220	50	3	0.8	250	150/120	165/132

#### Engine Technical Data

TPD1857 8-2014

Model:	1106A-70TAG2	Max. Power (kW):	144.1
Induction System:	Turbo-charged	Displacement (L):	7.01
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	105×135
Number of Cylinders:	6	Compression Ratio:	18.2:1
Governor Type:	Mechanical	Speed (RPM):	1500

#### Air System

Combustion Air Flow (M <sup>3</sup> /min):	Prime: 10.2	Standby: 10.67
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#### Exhaust System

Combustion Gas Flow (M <sup>3</sup> /min):	23.78/25.53	Max. Back Pressure (kPa):	6.0
Exhaust Gas Temperature (°C):	≤484	Exhaust Outlet Size (mm):	72

#### Lubrication System

Total Oil Capacity (L):	16.5	Oil Consumption 100% Load (L/h):	0.03/0.04
Normal Oil Temperature (°C):	125	Recommended Oil:	API CF-4 15W/40

#### Cooling System

Cooling System Capacity (L):	21	Max. Coolant Temperature (°C):	110
Thermostat Operation Range (°C):	82-93	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M <sup>3</sup> /min):	252	Radiator Power (kW):	5.0



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## Fuel System

Fuel Injection Pump:	DP210	Recommended Fuel:	BS2869:1998 , Class A2 Diesel
Fuel Consumption 100% Load (L/h):	33.4	Fuel Consumption 110% Load (L/h):	36.1

## Engine Electrical System

Voltage:	12Vdc
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## Alternator Physical Data

Model:	ECP34-3L/4A	Rated Power (kVA):	175
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:	±5%
Cooling Air (M <sup>3</sup> /s):	0.322	Efficiency:	93.5%

## 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
- .....
- .....

### Canopy

- Soundproof (Container/Enclosure)
- Trailer
- Truck/Lighting Truck
- Container Protected
- .....

## 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.

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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