

KB / Series

Powered by COOLPOWER

KB4125E Diesel Generating Set

PRP Rating (60Hz)	Standby Rating (60Hz)	Dimensions (L×W×H mm)	Weights (kg)	Fuel Tank Capacity (L)
3750kVA/3000kW	4125kVA/3300kW	7910×3110×3210	28000	N/A

Standard Configuration	Test Condition and Standards
- Engine (Baudouin) - Channel Steel Base 24V Charging Alternator - Control Panel 24V Starter Battery and Connect Cable - Flexible Pipe, Exhaust Elbow, Industrial Silencer,etc.	- Alternator (Leroy-Somer) 50°C Radiator - Air Filter,Diesel Fuel Filter,Lube Oil Filter - Ambient Temperature : ≤40°C - Relative Humidity : ≤60%, Altitude : ≤1000m - Engine: ISO3046,DIM6271,BS5514 - Alternator: VDE0530,BS5000,NEMA MG21,IEC34.1 - Generator: ISO8528,GB2820 - Generator Documents O&M Manuals

Generating Set Output Rating

Voltage (V)	Hz	Phase	PF	Max. Current (A)	DCP (kVA/kW)	Standby (kVA/kW)
480	60	3	0.8	4961	3750/3000	4125/3300

Engine Technical Data

Model:	16M55G8D2/6	Rated. Power (kW):	3300
Induction System:	Turbo-charged, After Cooled	Displacement (L):	87.5
Cylinder Arrangement:	64°V, Four Cycle	Bore (mm) × Stroke (mm):	180×215
Number of Cylinders:	16	Compression Ratio:	16.5:1
Governor Type:	Electronic	Speed (RPM):	1800

Air System

Combustion Air Flow (m ³ /min):	249.3
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Exhaust System

Exhaust Gas Flow (m ³ /min):	832.1	Max. Back Pressure (kPa):	15
Exhaust Gas Temperature (°C):	≤550	Exhaust Outlet Size (mm):	2×φ280

Lubrication System

Total Oil Capacity (L):	500	Oil Consumption 100% Load (L/h):	1.7
Normal Oil Temperature (°C):	105	Recommended Oil:	API CH-4 15W/40

Cooling System

Cooling System Capacity (L):	860	Max.Coolant Temperature (°C):	112
Thermostat Operation Range (°C):	82~92	Radiator Drive Type:	Shaft Drive
Radiator Cooling Air Flow (m ³ /min):	2825	Radiator Power (kW):	136



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Fuel System

Fuel Injection Pump:	High-pressure common rail	Recommended Fuel:	BS2869:1998 Class A2 Diesel
Fuel Consumption 100% Load (L/ h):	834	Fuel Consumption 110% Load (L/ h):	887

Engine Electrical System

Voltage:	24VDC
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Alternator Physical Data

Model:	LSA 54.2 UL17	Rated Power (kVA):	4125
Phase:	3+1	No.of Bearings:	2
Excitation System:	PMG	AVR:	D550
Connection:	3P , Series Star	Insulation Class / Temp Rise:	H/F
Power Factor:	0.8	Wave form NEAM=TIF:	TIF:<50
Ingress Protection Rating:	IP23	Wave form IEC=THF:	THF:<2%
Winding Pitch:	2/3	Voltage Regulation:	≥±5%
Cooling Air (m ³ /s):	3.0	Efficiency:	96.6%

Option

Engine

- ☐ Jacket Water Heater
- ☐ Heavy Duty Air Filter
- ☐ 50°C Radiator
- ☐ Lube Oil Heater

Control Panel

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

Alternator

- ☐ Stamford
- ☐ Marathon
- ☐ Cooltech
- ☐ Anti-condensation Heater
- ☐

ATS

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

Accessory

- ☐ Hybrid Silencer
- ☐ Residential Silencer
- ☐ Daily Tank
- ☐
- ☐

Canopy

- ☐ Soundproof (Container、Enclosure)
- ☐ Trailer
- ☐ Truck、Lighting Truck
- ☐ Container Protected
- ☐

Spare Parts

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| ☐ 500h Spare Parts | ☐ 2000h Spare Parts |
| ☐ 1000h Spare Parts | ☐ 3000h Spare Parts |
| ☐ 1500h Spare Parts | ☐ |

Warranty

Warranty period for the standby unit is two years from the date of delivery to the site (with no more than 500 operating hours per year) or one year from the date of installation and commissioning (with no more than 500 operating hours per year), whichever comes first.

Please refer to the Cooltech warranty manual for details.

Consumable parts (air filter, fuel filter, lube oil filter). This warranty does not apply to malfunctions caused by damage, misuse, repair or service by unauthorized persons. Any and all warranty repairs must be authorized by CP Power Solutions prior.

