

KP / SeriesPowered by Perkins Engines

KP100/KP110E

Diesel Generating Set

50Hz

Prime Rating	Standby Rating Dimensions (L×W×H r		nm) V	Veight (Kg)	Fuel - Hours of Run-time	
103kVA/83kW	113kVA/91kW	1850×850×1370		1263	6-8h	
Standard Configuration	Standard Configuration			Test Condition and Standards		
• Engine (Perkins)	Alternator (Mecc Alternator)	?)	• Am	bient Temperati	ure: ≤27°C	
Channel Steel Base	50°C Radiator		Relative Humidity: ≤60%, Altitude: ≤1000m			
 12V Charging Alternator 	Air Filter, Diesel Fuel Filter, Lube Oil Filter		• Engine: ISO3046, DIN6271, BS5514			
GE Circuit Breaker	Control Panel		Alternator: VDE0530, BS4999, NEMA MG1-32, IEC34			
12V Starter Battery and Connecting Cable		• Generator: ISO8528, GB2820				
Flexible Pipe, Exhaust Elbow, Industrial Silencer, etc.			Generator O&M Manuals			

Generating Set Output Rating

Voltage (V)	Hz	Phase	PF	Max. Current (A)	Prime (kVA/kW)	Standby (kVA/kW)
415/240	50	3	0.8	159	103/83	113/91
400/230	50	3	0.8	165	103/83	113/91
380/220	50	3	0.8	174	103/83	113/91

Engine Technical Data			
Model:	1104C-44TAG2	Max. Power (kW):	99.5
Induction System:	Turbo-charged	Displacement (L):	4.4
Cylinder Arrangement:	In Line, Four Cycle	Bore (mm) × Stroke (mm):	105×127
Number of Cylinders:	4	Compression Ratio:	18.23:1
Governor Type:	Electrical	Speed (RPM):	1500

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Combustion Air Flow (M³/min):	Prime: 6.01	Standby: 6.27
Exhaust System		

Combustion Gas Flow (M ³ /min):	15.2/16.3	Max. Back Pressure (kPa):	18.0
Exhaust Gas Temperature (°C):	≤543	Exhaust Outlet Size (mm):	76
Lubrication System			
Total Oil Capacity (L):	8.0	Oil Consumption 100% Load (L/h):	0.034/0.037
Normal Oil Temperature (°ℂ):	125	Recommended Oil:	API CF-4 15W/40

Cooling System Capacity (L): 12.6 Max. Coolant Temperature (°C): 110	Cooling System			
	Cooling System Capacity (L):	12.6	Max. Coolant Temperature (°C):	110
Thermostat Operation Range (°C): 82-93 Radiator Fan Drive Type: Shaft Drive	Thermostat Operation Range (°C):	82-93	Radiator Fan Drive Type:	Shaft Drive
Radiator Cooling Air Flow (M³/min): 165.6 Radiator Power (kW): 3.5	Radiator Cooling Air Flow (M ³ /min):	165.6	Radiator Power (kW):	3.5







Fuel System			
Fuel Injection Pump:	Rotary	Recommended Fuel:	BS2869:1998 , Class A2 Diesel
Fuel Consumption 100% Load (L/h):	22.6	Fuel Consumption 110% Load (L/ h):	24.9
Engine Electrical System			
Voltage:	12 Vdc		
Alternator Physical Data			
Model:	ECP34-2S/4A	Rated Power (kVA):	116
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):	0.322	Efficiency:	92.2%
Option			
Engine		Control Panel	
□ Jacket Water Heater		□ Auto Control Panel	
 Heavy Duty Air Filter 		□ Intelligent Remote Control Panel	
□ Lube Oil Heater		□ Intelligent Paralleling Control Panel	
·····		□ Buzzer, Space Heater Control Panel	
Alternator		ATS	
□ Leroy Somer		□ ATS (G+M)	
□ Marathon		□ ATS (G+G)	
□ Cooltech		□ ATS (G+G+M)	
□ PMG		□ ATS Controller	
□ Anti-condensation Heater		·	
Accessory		Canopy	
□ Hybrid Silencer		□ Soundproof (Container/Enclosure)	
□ Residential Silencer		□ Trailer	
□ Day Tank		□ Truck/Lighting Truck	
· ·····		□ Container Protected	
·		·	
Spare parts			
□ 500h Spare Parts		□ 2000h Spare Parts	
□ 1000h Spare Parts		□ 3000h Spare Parts	
□ 1500h Spare Parts			
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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





