

## KP / Series Powered by Perkins Engines

## KP1500/KP1650E Diesel Generating Set

50Hz

Prime Rating	Standby Rating	Dimensions (L×W×H	mm) Weight (Kg)	Fuel - Hours of Run-time	
500kVA/1200kW	1620kVA/1296kW	4930×2200×241	0 10407	N/A	
Standard Configuration			Test Condition and	Standards	
Engine (Perkins)	Alternator (Mecc Alte)		• Ambient Temperature: ≤27°C		
Channel Steel Base	● 40°C Radiator		• Relative Humidity: ≤60%, Altitude: ≤1000m		
• 24V Charging Alternator	Air Filter, Diesel Fuel Filter, Lube Oil Filter		• Engine: ISO3046, DIN6271, BS5514		
GE Circuit Breaker	Control Panel		• Alternator: VDE0530, BS5000, NEMA MG1-32, IEC34		
24V Starter Battery and Connecting Cable			Generator: ISO8528, GB2820		
Flexible Pipe, Exhaust Elb	<u>.</u>	Generator O&M Manuals			
Generating Set Output F	Rating				
Voltage (V) Hz	Phase P	F Max. Current (A)	Prime (kVA/kW	/) Standby (kVA/kW	
415/240 50	3 0.	.8 2256	1500/1200	1620/1296	
400/230 50	3 0.		1500/1200	1620/1296	
380/220 50	3 0.	.8 2464	1500/1200	1620/1296	
Engine Technical Data				TPD1586, 10-201	
Model:	4012-46TA	G2A Max. Pov	ver (kW):	1395	
Induction System:	Turbo-char	ged Displacer	nent (L):	45.842	
Cylinder Arrangement:	60°V, Four	Cycle Bore (mm	n) × Stroke (mm):	160×190	
Number of Cylinders: 12		Compres	Compression Ratio:		
Governor Type:	Electrical	Speed (R	PM):	1500	
Air System					
Combustion Air Flow (M <sup>3</sup> /min)	Prime: 105	5 Standby: 120			
Exhaust System					
Combustion Gas Flow (M <sup>3</sup> /min	n): 309	Max. Back Pres	ssure (kPa):	5.0	
Normal Oil Temperature (°C):	≤500	Exhaust Outlet	Size (mm):	2x273	
Lubrication System					
Total Oil Capacity (L):	177	·	on 100% Load (L/h):	0.69/0.75	
Normal oil temperature (°C):	105	Recommended	OII:	API CF-4 15W/40	
Cooling System					
Cooling System Capacity (L):	207		emperature (℃):	101	
Thermostat Operation Range		Radiator Fan D		Shaft Drive	
Radiator Cooling Air Flow (M <sup>3</sup> /	min): 1944	Radiator Power	(KVV):	64	







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Fuel Injection Pump:	Combined Unit Injector	Recommended Fuel:	BS2869:1998 Class A2 Diese	
Fuel Consumption 100% Load (L/h):	342	Fuel Consumption 110% Load (L/h):	378	
Engine Electrical System				
Voltage: 24Vdc				
Alternator General Data				
Model:	ECO46-1S/4A	Rated Power (kVA):	1620	
Phase:	3	No. of Bearings :	1	
Excitation System:	Self-Excited and Brushless	AVR:	DER1	
Connection:	3P 4W, ParallelStar	Insulation Class/Temp Rise:	H/H	
Power Factor:	0.8	Wave form NEAM=TIF:	<540	
Ingress Protection Rating:	IP23	Wave form IEC=THF:	<2%	
Winding Pitch:	2/3	Voltage Regulation:	±1%	
Cooling Air (M <sup>3</sup> /s):	2.25	Efficiency:	96.2%	
Option				
Engine		Control Panel		
<ul> <li>Jacket Water Heater</li> </ul>		Auto Control Panel		
Heavy Duty Air Filter		Intelligent Remote Control Panel		
□ 50°C Radiator		<ul> <li>Intelligent Paralleling Control Panel</li> </ul>		
Lube Oil Heater		Buzzer, Space Heater Control Panel		
Alternator		ATS		
Leroy Somer		□ ATS (G+M)		
□ Marathon		□ ATS (G+G)		
		□ ATS (G+G+M)		
Anti-condensation Heater		ATS Controller		
D		o		
Accessory		Сапору		
Hybrid Silencer		<ul> <li>Soundproof (Container/Enclosure)</li> </ul>		
Residential Silencer				
<ul> <li>Day Tank</li> </ul>		Truck/Lighting Truck		
		Container Protected		
· ·····				
Spare Parts				
500h Spare Parts		2000h Spare Parts		
<ul> <li>1000h Spare Parts</li> <li>1500h Spare Parts</li> </ul>		3000h Spare Parts		

## Warranty

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

Rev 201605

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 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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