



FUJIAN DIUO POWER CO., LTD

Your Reliable Power Partner Worldwide Elements

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KTA19-G8 G-Drive Engine

- CCEC KTA19-G8 (1500 RPM) Generator Drive Engine is 6-Cylinder Inline, 19 liters Four-Stroke Engine with 159 mm (6.25 in) Bore and 159 mm (6.25 in) Stroke.
- KTA19-G8 Generator Drive Engine Equipped with PT Fuel System, Comes with Turbocharger and Aftercooled. The Standby Power for 50 Hz Generator Set (1500 RPM) of CCEC KTA19-G8 Generator Drive Engine is 771 HP (575 kW).
- As Part of EMAC, SinoGen Also Provide Complete Power Supply Solutions that Powered by CCEC, Our Ranges of Products Including Open Type Generator Set, Silence Type Generator Set, Super Silence Type Generator Set, Mobile Trailer, Complete Power Truck and Complete Power Car for Railways Applications.
- We Provide Full Life Cycle Services for All Customers, From Design to Power System Supply, from Installation to Commissioning, from After-Sales Service Training to Spare Parts Supply, From Trouble Shooting to Overhaul Technical Support.

Advantages of CCEC KTA19-G8 G-Drive Engine

- High quality alloy cast iron for the rigidity performance and lower vibration and noise. Wet and replaceable cylinder liners for better heat rejection performance and easier replacement.
- 4 valves per cylinder, Optimize the mixed level which lead to an excellent fuel consumption rate and emission performance. High quality alloy cast iron, one cylinder one head, single camshaft and special designed outline for better reliability and durability.
- CMS unique PT with fixture and Step Timing control for precise fuel injection make the fuel injection pressure above 120 Mpa, which leads to an excellent fuel consumption rate and emission performance. Check valve in fuel tube improve reliability.
- Gear water pump and great flux channel design provide effective cooling. Spin-in water filter makes the coolant clean and keeps it in normal acidity.
- Advanced Holset turbocharger and after-cooled technology, pulse exhaust manifold reduce exhaust temperature, provide excellence fuel consumption and emission performance.

Technical Specifications

Basic Introduction of CCEC KTA19-G8 G-Drive Engine

Engine Model:	KTA19-G8
Engine Type:	4 – Cycle; In – line; 6 – Cylinder Diesel
Displacement:	19 L
Standby Power / Speed:	575 kW @ 1500 RPM
Aspiration Method:	Turbocharged & Aftercooled Intercooler
Emission Standard:	Euro II
Bore * Stroke:	159 mm * 159 mm

Packing Size (L * W * H):

1573 mm * 796 mm * 1343 mm

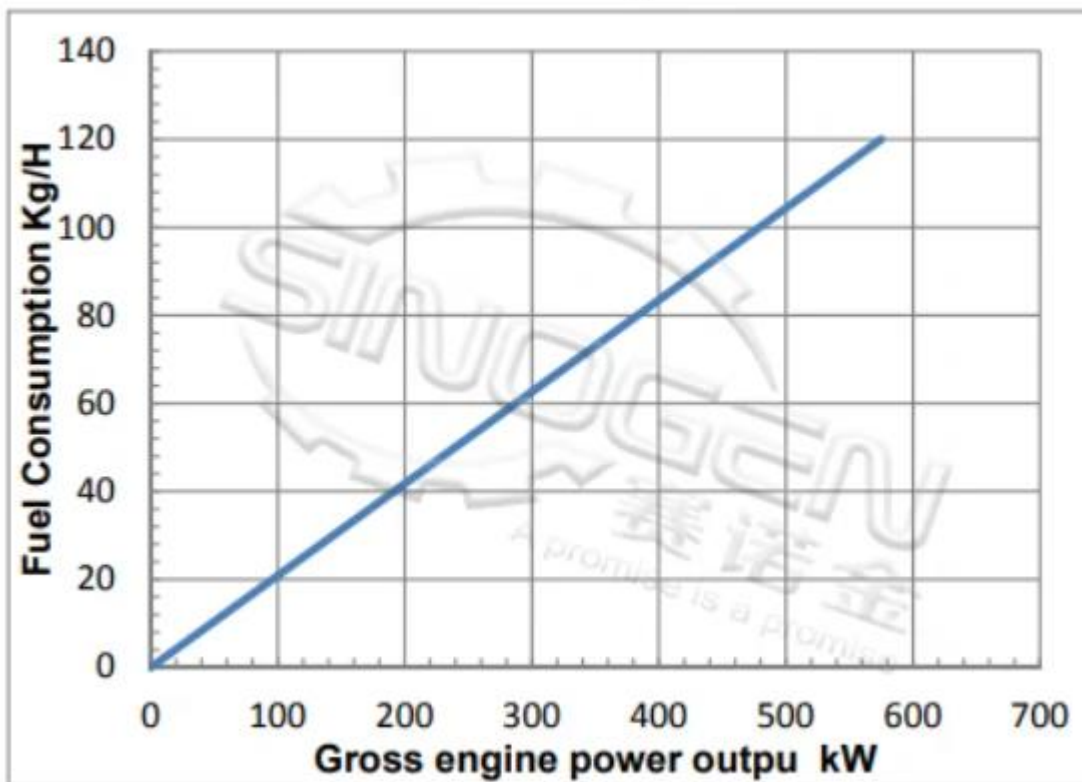
Dry Weight:

1690 kg

General Information of CCEC KTA19-G8 Generator Drive Engine			
Engine Model	KTA19-G8	Configuration	D193091DX02
Performance Curve	C - 487	CPL Number	8685
Type	4 - Cycle; In - line; 6 - Cylinder	Aspiration	Turbocharged & Aftercooled Intercooler
Displacement	1150 in3 / 19 L	Compression Ratio	13.9 : 1
Dry Weight - Fan Hub to Flywheel Engine	3725 lb / 1690 kg	Dry Weight - Heat Exchanger Cooled Engine	5900 lb / 2676 kg
Wet Weight - Fan Hub to Flywheel Engine	3880 lb / 1760 kg	Wet Weight - Heat Exchanger Cooled Engine	6300 lb / 2858 kg
Moment of Inertia of Rotating Components - with FW 4001 Flywheel	170.0 lbm.ft2 / 7.16 kg.m2	Moment of Inertia of Rotating Components -with FW 4006 Flywheel	199.0 lbm.ft2 / 8.39 kg.m2
C.G. Distance From Front Face of Block	23.6 in / 598 mm	C.G. Distance Above Crank Centerline	9.0 in / 229 mm
Maximum Allowable Bending Moment at Rear Face of Block	2000 lb / 907 kg	Firing Order	1 - 5 - 3 - 6 - 2 - 4
Bore * Stroke	6.25 in * 6.25 in / 159 mm * 159 mm	Standby Power	575 kW (771 HP) @ 1500 RPM
Fuel System	PT	Moment of Inertia About Roll Axis	1876 lbm.ft2 / 79 kg.m2
Moment of Inertia of Rotating Components (Excluding Flywheel)	43 lbm.ft2 / 1.82 kg.m2		

Performance Data of CCEC KTA19-G8 Generator Drive Engine			
	Standby Power		Standby Power
Engine Speed	1500 RPM	Engine Idle Speed	675 - 775 RPM
Gross Engine Power Output	771 HP/min / 575 kW	Brake Mean Effective Pressure	352 PSI / 2424 kPa
Piston Speed	1555 ft/min / 7.9 m/s	Friction Horsepower	54 HP / 40 kW
Intake Air Flow	1635 cfm / 772 liter/s	Exhaust Gas Temperature	1060 °F / 571 °C
Heat Rejection to Ambient	4676 HP/min / 82 kW	Heat Rejection to Coolant	23380 HP/min / 411 kW
Exhaust Gas Flow	4185 cfm / 1975 liter/s	Engine Water Flow @ 4psi	162 U.S.GPM/ 10.2 L/s

Fuel Consumption



System Technical Data of CCEC KTA19-G8 Generator Drive Engine

Exhaust System	Maximum Allowable Back Pressure (1500 / 1800 RPM)	2.3/3 in Hg / 7.8/10.2 kPa
	Maximum Allowable Back Pressure	3 in Hg / 10 kPa
	Exhaust Pipe Size Normally Acceptable	5 in / 127 mm
Air Induction System	Maximum Allowable Intake Air Restriction With Heavy Duty Air Cleaner - Clean Element	15 in H ₂ O / 3.73 kPa
	Intake Air Alarm Temperature (1500 / 1800 RPM)	82 °F / 180 °C
Cool System	Coolant Capacity - After - Cooler Only	6 US Gal / 23 L
	Coolant Capacity - With Heat Exchanger Hx 6076 (With Out Explantion Tank)	53 US Gal / 199 L
	Coolant Capacity - With Explantion Tank & Lta	30 US Gal / 112 L
	Maximum Coolant Friction Heat External To Engine @1800 RPM	10 PSI / 68.9 kPa
	Maximum Coolant Friction Heat External To Engine @1500 RPM	10 PSI / 68.9 kPa
	Maximum Allowable Air Friction Across Radator	0.5 in H ₂ O / 0.1 kPa
	Minimum Raw Water Flow @ 90 °F(32 °C) To Heat Exchanger With Hx 6076	108 GPM / 408.8 L/min
	Maximum Raw Water Inlet Pressure @ Heat Exchanger Hx 6076	50 PSI / 344.7 kPa
	Maximum Allowable Top Tank Temperature (Stand_By / Prime)	220/212 °F / 104/100 °C
	Standard Thermostat (Modulating) Range	180 - 200 °F / 82 - 93 °C
	Maximum Allowable Coolant Temperature	205 °F / 96.1 °C
	Minimum Coolant Makeup Capacity	1.6 US Gal / 6.1 L
	Maximum Raw Water Inlet Friction	10 PSI / 254.0 kPa
	Minimum Allowable Fill Rate	5 GPM / 18.9 L/min
Maximum Allowable Initial Fill Time	5 min	
Minimum Allowable Coolant Expansion Space	5 %	
Maximum Allowable Inlet Coolant Temperature At Limited Situation (Stand_By / Prime)	160/150 °F / 71/66 °C	
Lubrication System	Oil Pressure @ Idle Speed	20 PSI / 138 kPa
	Oil Pressure @ Governed Speed	50 - 70 PSI / 345 - 483 kPa
	Oil Flow at Rated Speed	40 GPM / 151.4 L/min
	Maximum Allowable Oil Temperature	250 °F / 121 °C
	By - Pass Filter Capacity - Spin - on Cartridge Type	0.7 US Gal / 2.6 L
	By - Pass Filter Capacity - Replaceable Element Type	2.9 US Gal / 11.0 L
	Oil Pan Capacity (Option OP4019) - High	10.0 US Gal / 37.9 liter
	Total System Capacity (Excluding By - Pass Filter)	22.3 US Gal / 84.4 L
	Total System Capacity (Excluding By - Pass Filter)	13.2 US Gal / 50.0 L
	Angularity of Standard Oil Pan Oil Pan - Front Down	30 °
Fuel System	Fuel Injection System	PT
	Maximum allowable Restriction to PT Fuel Pump - With Clean Fuel Filter	4 in Hg / 13.55 kPa
	Maximum allowable Restriction to PT Fuel Pump - With Dirty Fuel Filter	9 in Hg / 30.48 kPa
	Maximum Allowable Injector Return Line Restriction - With Check Valves	7 in Hg / 22 kPa
	Maximum Allowable Injector Return Line Restriction - Less Check Valves	3 in Hg / 8 kPa
	Minimum Allowable Fuel Tank Vent Capability	15 ft ³ /h / 425 L/h
	Starter (Heavy, Anode)	24 V
	Battery Recharge System, Negative ground	35 A
	Maximum Allowable Resistance of Starting Circuit	0.002 Ω
	Minimum Recommended Battery Capacity - Cold Soak at 50 °F(10 °C) or Above	600 CCA
Minimum Recommended Battery Capacity - Cold Soak at 32 - 50 °F(0 - 10 °C) or Above	640 CCA	
Minimum Recommended Battery Capacity - Cold Soak at 0 - 32 °F(- 18 - 0 °C) or Above	900 CCA	
Scopes of Supply of CCEC KTA19-G8 Generator Drive Engine		
Air Intake System	1. Air Intake Manifold	1. Exhaust Manifold
	2. Standard Air Filter	Exhaust System
	3. Water-Air Intercooler	2. Turbocharger
Starting System	1. Starter Motor	3. Exhaust Elbow
	2. Starter Rely	1. Charging Alternator
Lubricating System	1. Oil Pump	2. N/A
	2. Oil Filter	1. Water Pump
	3. N/A	2. Engine Fan
Engine Shut-Down System	1. Engine Fuel Shut-Off Solenoid	3. Standard Radiator
	2. N/A	1. Flywheel
Fuel System	1. Fuel Transfer Pump	2. Standard Flywheel Housing
	2. High-Pressure Fuel Pump	
	3. Fuel Filter	
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