



Diesel Generating Sets

60
Hz

Model: **KYC300**

INDUSTRIAL RANGE

Powered by Cummins



Generating Rates

POWER RATING		STANDBY	PRIME
POWER	KVA	331	300
	KW	265	240
Rated Speed	R.P.M	1800	
Standard Voltage	V	480	
Available Voltages	V	480/277-440/254-220/127-208/120	
Rated at power factor	Cos Phi	0.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

P.R.P. Prime Power - ISO 8528 : prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24

Standby Power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable i



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Engine Specifications 1800 r.p.m.

ENGINE		STANDBY		PRIME
Rated Output	kW	265		240
Manufacturer		Cummins		
Model		6LTAA8.9-G2		
No. of Cylinders and Build		4 Cycle; In-line; 6 Cylinder Diesel		
Aspiration and Cooling		Natural Aspiration		
Bore/Stroke	mm	114 x 145		
Cooling system		Water-cooled		
Total Coolant Capacity	L	41		
Engine Speed/Frequency	rpm/Hz	1800/60HZ		
Compress the ratio		16.0:1		
Starting System		Electric 12 volt DC		
Displacement	L	8.9		
Lubricant system Capacity	L	27.6		
Battery Volatge / Capacity		24VDC		
Governing Type	Type	Mechanical		
Air Filter	Type	Dry		
Fuel Consumption	Load of prime power	100%	75%	50%
	L/h	59	42.9	29.7

ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C ,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM--12V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM--Heavy duty industrial exhaustet silencer with flexible piping.

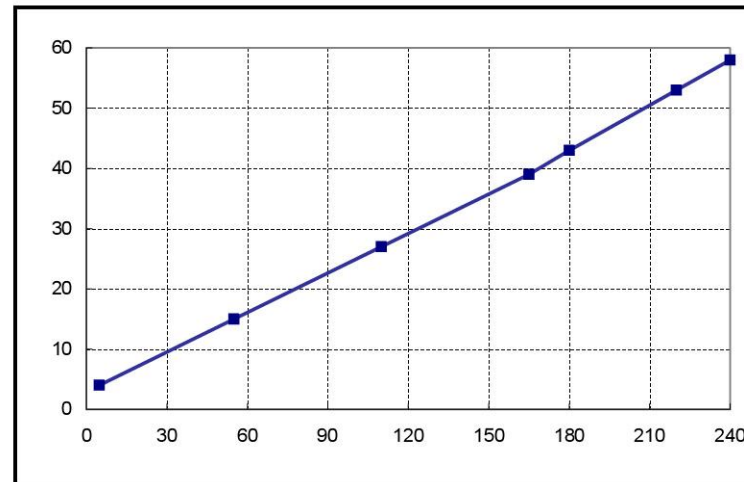
CUMMINS ENGINE DATASHEET

(ENGINE MODEL: 6LTAA8.9-G2)

KYNN for General Trading & Contracting Co., Ltd.		ENGINE MODEL 6LTAA8.9-G2 - INDIA		PERFORMANCE CURVE FR92516	
ENGINE DATASHEET for G-drive		ENGINE FAMILY	CPL 3079	2007/06	
Displacement	8.9 L	Air intake way	Air-air after-cooled, turbo-charged		
Cylinder bore	114 mm	Cylinder quantity	6	kW(BHP)	@RPM Stroke
	145 mm		220(295)	1500	
Fuel system	P7100 pump _ GAC governor / BYC ASIMCO		Speed-droop	5%	
Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory. Testing condition air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.					

Engine Speed-RPM	Standby Power		Base Output Power		Continuous Power	
	kW	HP	kW	HP	kW	HP
1500	240	322	220	295	180	241

Output Power			Fuel consumption	
%	kW	HP	g/kW.h	L/h
Standby Power				
100	240	322	199	58
Base Output Power				
100	220	295	197	53
75	165	221	197	39
50	110	147	201	27
25	55	74	220	15
Continuous Power				
100	180	241	196	43



	KYNN for General Trading & Contracting Co., Ltd. ENGINE DATASHEET for G-drive	ENGINE MODEL 6LTAA8.9-G2 - INDIA		PERFORMANCE CURVE FR92516
		ENGINE FAMILY	CPL 3079	ENGINE FAMILY

Typical engine data

Net weight	kg	650
Rotate part instantaneous inertia _ without flywheel	kg.m ²	0.72
Distance between gravity center and rear surface of cylinder block	mm	427
Distance between gravity center and center line above of crankshaft	mm	163

Engine installation

Static bent torque permitted—rear surface of cylinder block	Nm	1356
Static bent torque permitted—front surface of cylinder block	Nm	N/A
Static bent torque permitted—flank surface of flywheel-house	Nm	N/A

Exhaust system

Max. back pressure	kPa	10.1
Diameter of exhaust pipe recommended	mm	N/A

Air intake system

Max. air intake resistance		
Dirty filter	kPa	6.2
Normal air cleaner and clean filter Heavy	kPa	3.7
duty cleaner and clean filter Diameter of	kPa	N/A
intake pipe recommended	mm	N/A

Lubrication system

Normal oil pressure range

Low idle	kPa	103
Rated speed	kPa	276_414
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	L	N/A
Lubrication system Min. capacity (oil pan + oil filter)	L	27.6
Usage inclining degree permitted (any direction)	°	N/A

Fuel system

Fuel injection pump model	BYC P7100 pump with GAC governor	
Max. fuel input resistance of transfer pump	kPa	20.3
Max. overflow fuel resistance at overflow pipe of injector	kPa	33.9
Total fuel overflow amount	L/h	83

Cooling system

Coolant capacity-engine only	L	11.1
Max. coolant cycling resistance exterior engine	kPa	N/A
Thermostat adjusting temperature (range)	°C	82_93
Min. opening pressure of radiator cap	kPa	103
Max. coolant temperature permitted _ Standby Power/Base output Power	°C	110/104

Electric system

Starter	12V	24V
Battery charging system	100A	70A
Max. starting circuit resistance	0.001Ω	0.002Ω
Min. battery capacity_ -12°C (CCA: Cold Cranking Ampere)	1500CCA	750CCA

Technical data _ under standard fuel delivery rate FR92516

	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	220	240
Torque _ Nm	1401	1528
Low idle _ RPM	850-950	850-950
Friction energy output _ kW	26	26
Piston speed _ m/s	7.25	7.25
Engine coolant flow _ L/sec	3.3	3.3
Air intake flow _ L/sec	N/A	N/A
Exhaust flow _ L/sec	N/A	N/A
Exhaust temperature _ °C	430	470
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	95	105
Fuel energy output _ kW	0.1	0.1

Excuse for none notice anymore in case of data changed



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Alternator Technical Specifications

ALTERNATOR BRAND		STAMFORD
Model		UCI274H
Exciter System		Self-excited, brushless
Poles	Num	4
Cooling Fan		Cast alloy aluminum
Bearing		Single, double shielded
Windings		100% copper
Connection Type		Reconnectable
Insulation Type	Class	Class H
Pitch		2/3
Amortisseur Winding		Full
Voltage Regulator		A.V.R. (Electronic)
Steady Voltage Precision		± 1%
Underspeed Protection		Standard
Overexcitation Protection		IP23
TIF (1960 Weightings)		<50

ALTERNATOR--Brushless, self exciting, self regulation, screen protected, drip proof rated in accordance with IEC60034. Voltage regulation maintained within ±0.5% from no load to full load. between 0.8 lagging and unity. All standard voltages available



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Control Panel Technical Specifications



DSE6110

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES

DSE6110



KEY FEATURES

- Back-lit text LCD display
- Front panel editing
- LED and LCD alarm indication
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC and front panel configuration
- 6 Digital inputs
- 3 Analogue inputs
- 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Configurable timers and alarms
- Alternative configuration
- Event Log(10)
- Remote Start input
- 3 Phase generator monitoring

- Current Monitoring and protection
- Battery voltage monitoring
- Engine pre-heat
- Hours counter
- Comprehensive shutdown or warning on fault condition

KEY BENEFITS

- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout

- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- Tier 4 engine support
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Licence-free PC software

SPECIFICATION

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

178 mA at 12 V, 95 mA at 24 V

MAXIMUM STANDBY CURRENT

88 mA at 12 V, 50 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

MAINS (UTILITY) DSE6120 ONLY

VOLTAGE RANGE
15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUTS

OUTPUT A (FUEL)
2 A DC at supply voltage

OUTPUT B (START)
2 A DC at supply voltage

AUXILIARY OUTPUTS C, D, E & F
2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE
15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP

VOLTAGE RANGE
+/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

DIMENSIONS

OVERALL
215 mm x 158 mm x 42 mm
8.5" x 6.2" x 1.6"

PANEL CUT-OUT

182 mm x 137 mm
7.2" x 5.4"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C



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Generating Sets Standard Features

Three phase four wire, output voltage 480V/277V,60HZ,between 0.8 lagging, protection capability according with the standard of NAME1 and IP23.

General Features:

- Composed of Perkins diesel engine and Stamford or Leroy Somer alternator
- Oil and fuel filter fitted, water separator
- Lube-oil drain valve fitted
- Electric Starter Charge motor 12
- VD.C Water-cooled
- 8-hours operation base tank
- Auto start
- Optional soundproof and weatherproof canopy
- 3 pole MCCB Delixi breaker
- Operation & Maintenance manual
- Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

- Voltage regulation maintained within $\pm 0.5\%$
- Between 0.8 and 1.0 lagging and unity
- From no load to full load
- At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%,within 1.0%(electric speed regulator),within 4.5%(mechanical speed regulator)

Frequency Undulation:

- load from 0-100%,frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three Phrased balanced load in the order of 5%
- Effect factor of Telecom
- TIF better than 50
- THF to IEC60034 Part 40 better than 2%



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Soundproofed Version Features

Robust Corrosion Resistant Construction

Black finish stainless steel lock and hinges

Body made from steel components treated with polyester powder coating

Excellent Access for Maintenance

Two large doors on each

side Radiator fill access plate

lube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

Control panel viewing window in a lockable access door

Emergency stop push button (red) mounted on enclosure interior

Cooling fan and battery charging alternator fully guarded

Exhaust silencing system totally enclosed for operator safety





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Generating Sets other Features

Generating Sets Optional Features

- Low fuel level alarm shutdown
- Automatic Fuel Filling System
- Engine oil feeding and drain pump
- Auto Transfer Switch(ATS)
- Parallel control panels
- Circuit Breaker MCCB & ACB
- Remote Control Panel
- weatherproof/soundproof
- Canopy Trailer type Gensets

Quality Standards

- ISO9001:2000,ISO14000,ISO3046
- ISO8528 BS4999
- BS5514,AS1359,ICE34
- CE Compliance

Gensets Dimensions & Weight

Open type:LxWxH (mm) Net Weight Kgs
2570*1140*1680, 1700 KGS

Silent type:LxWxH (mm) Net Weight Kgs
3600*1090*2110, 1950 KGS

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