

# DIESEL GENERATOR DATA SHEET

## HIPOWER DIESEL GENERATOR

Cummins® powered Genset

Model: PGD175C



### I . GENERAL DATA

Prime Power	kW/kVA	128	160
Standby Power	kW/kVA	140	175
Frequency	Hz/rpm	60	1800
Voltage	V	440	254
Current	A	210	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type (L×W×H)	mm	2350×950×1520	
Open Type(Weight)	kg	1300	
Silent Type (L×W×H)	mm	2800×1100×1700	
Silent Type(Weight)	kg	1760	



■ Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

■ All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.

■ Please contact with engineer for correct generator capacity selection when the load application can't meet with the standard reference.

■ diesel generators comply with standards :ISO8528,ISO 14000,ISO3046,GB755,BS5000,VDE0530,IEC34-1

## II. STANDARD CONFIGURATION

Engine	Cummins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	brushless AC alternator
Radiator	50°C, fan protective shroud
Base Frame	≤550KW: base mounted fuel tank, anti-vibration pads, battery holder
	>550KW: channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	≤63A: Micro Circuit Breaker (MCB) >63A ≤1250A : Molded case circuit breaker(MCCB) , >1250A: Air circuit breaker(ACB)
Control System	DEEP SEA 6120
Start Battery	Dry charged battery, available for 6 times starts under standard condition; connection cables.
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Tool	standard
Documents	Electric drawing, operation & maintenance manual, certification etc.

## III. OPTIONAL CONFIGURATION

Engine Accessories	<input type="checkbox"/> Heavy-duty air filter <input type="checkbox"/> Coolant heater <input type="checkbox"/> Lub oil heater <input type="checkbox"/> Fuel and Water Separator
Alternator And Accessories	<input type="checkbox"/> Stamford <input type="checkbox"/> Leroy Somer <input type="checkbox"/> Marathon <input type="checkbox"/> Anti condensation heater <input type="checkbox"/> PMG
	<input type="checkbox"/> High voltage ____kV
Cooling System	<input type="checkbox"/> 50°C radiator <input type="checkbox"/> Heat exchanger + water cooling tower + External water circulation pumping system
	<input type="checkbox"/> Remote horizontal water tank system
Control System	<input type="checkbox"/> AMF <input type="checkbox"/> Parallel <input type="checkbox"/> Practical type in low temperature environment <input type="checkbox"/> Control Screen Heater
	<input type="checkbox"/> Other (Comap、DEIF)
Circuit Breaker	<input type="checkbox"/> 3/4 poles <input type="checkbox"/> Fixed/handcart type <input type="checkbox"/> Electric mechanism
Automatic Transfer Swtich	<input type="checkbox"/> ATS cabinet
Start Battery	<input type="checkbox"/> Nickel-cadmium battery <input type="checkbox"/> Maintenance-free battery <input type="checkbox"/> Power charger and selector
	<input type="checkbox"/> Charging current meter
External Fuel Tank	<input type="checkbox"/> 500L <input type="checkbox"/> 1000L <input type="checkbox"/> 1500L <input type="checkbox"/> 2000L <input type="checkbox"/> 2500L <input type="checkbox"/> 3000L <input type="checkbox"/> 4000L <input type="checkbox"/> 5000L
Others	_____

## IV. ENGINE DATA

Engine Model	6BTAA5.9-G12	Engine Power	165	kW
Aspiration	Turbocharged and Air to air afterCooled	Displacement	5.9	L
Type	In-line	Bore×Stroke	102×120	mm
No. of Cylinders	6	Compression Ratio	17.3:1	
Governor Type	Electronic Governor	Rated Speed	1800	RPM

### ■ Fuel System

Prime Power Fuel Consumption	38	L/h	Standby Power Fuel Consumption	42	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	BYC P7100	

### ■ Lubrication System

Lub Oil Capacity	16.4	L			
Lub #	API CF-4 15W40		Max.Temperature	121	°C

### ■ Coolant System

Coolant Capacity	26.4	L	Max. Top Tank Temp.	104	°C
Std. Thermostat (Modulating) Range	82 - 95	°C	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	288	m3/min			

### ■ Air Intake System

Combustion Air Flow	182/196	m3/sec	Maximum Air Intake Restriction	3.7	kPa
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### ■ Exhaust System

Exhaust Gas Flow	398/438	m3/sec	Max.Back Pressure	10	kPa
Exhaust Gas Temp	≤458	°C	Exhaust Pipe Size	φ76	mm

### ■ Starting System

Start Mode	DC24V Electric start	Battery	2×120	Ah
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## V. ALTERNATOR DATA

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Alternator Model	SLG274E	Rate Power	134/168	kW/kVA
PF.	0.8	Voltage	440/254	V
Phase	3	Frequency	60	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP21	
Insulation Class	H	Efficiency	92.5%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	Self Excited	

## VII. WARRANTY POLICY

1. Guarantee for one year or 1000 hours (accord to whichever reach first) from ex-factory date. Refer to 《 Diesel Generator Warranty Manual》 for more details.
2. Wearing parts( filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

## VIII. DRAWING (for illustration purposes only)

