

DIESEL GENERATOR DATA SHEET

HIPOWER DIESEL GENERATOR

Powered by Cummins

Model:PGD500C



I . GENERAL DATA

Prime Power	kW/kVA	350	438
Standby Power	kW/kVA	400	500
Frequency	Hz/rpm	60	1800
Voltage	V	440	254
Current	A	574	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type (LxWxH)	mm	3500x1345x2110	
Open Type(Weight)	kg	4200	
Silent Type (LxWxH)	mm	4800x2100x2275	
Silent Type(Weight)	kg	5400	

■ 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	Silent Type 50°C (Open Type 40°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	≤1250A : Molded case circuit breaker(MCCB)
Control System	DEEP SEA 6020
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	KTA19-G2	Engine Power	448	kW
Aspiration	Turbocharged & Aftercooled	Displacement	19	L
Type	In-line	Bore×Stroke	159×159	mm
No. of Cylinders	6	Compression Ratio	14.5:1	
Governor Type	Electronic Governor	Rated Speed	1800	RPM

■ Fuel System

Prime Power Fuel Consumption	97.6	L/h	Standby Power Fuel Consumption	112.9	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	PT	

■ Lubrication System

Lub Oil Capacity	50	L			
Lub #	API CF-4 15W40		Max. Temperature	121	°C

■ Coolant System

Coolant Capacity	85.3	L	Max. Top Tank Temp.	104	°C
Std. Thermostat (Modulating) Range	82 - 93 °C		Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	828	m3/min			

■ Air Intake System

Combustion Air Flow	34.86/37.38	m3/min	Maximum Air Intake Restriction	3.7	kPa
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■ Exhaust System

Exhaust Gas Flow	92.58/101.94	m3/min	Max. Back Pressure	10	kPa
Exhaust Gas Temp	≤513 °C		Exhaust Pipe Size	φ150 mm	

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Starting System

Start Mode DC24V Electric start Battery 2x150 Ah

V. ALTERNATOR DATA

Alternator Model	SLG314F	Rate Power	365/456	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	92.6%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	Self Excited	

VI. CONTROL SYSTEM DATA

MODEL DSE6020

Main feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications.



Key Function

- ▲ Utility voltage sensing
- ▲ Generator/load power monitoring (kW, kV A, kV Ar, pf)
- ▲ Generator overload protection (kW)
- ▲ Efficient power save mode
- ▲ mains and generator closed via front panel
- ▲ 4 configurable DC outputs
- ▲ 4 configurable analog./digital inputs
- ▲ 6 configurable digital inputs
- ▲ Configurable staged loading outputs
- ▲ CAN, MPU and alternator speed sensing in one variant
- ▲ 3 engine maintenance alarms
- ▲ Engine speed protection
- ▲ Engine pre-heat
- ▲ Multiple date and time scheduler
- ▲ Engine idle control for starting & stopping
- ▲ Fuel pump control
- ▲ Configurable remote start input
- ▲ Alternative configuration
- ▲ Alarm including common alarm, common electric and common shutdown
- ▲ LCD and LED alarm indication
- ▲ Configurable event log (50)
- ▲ Heated display option available

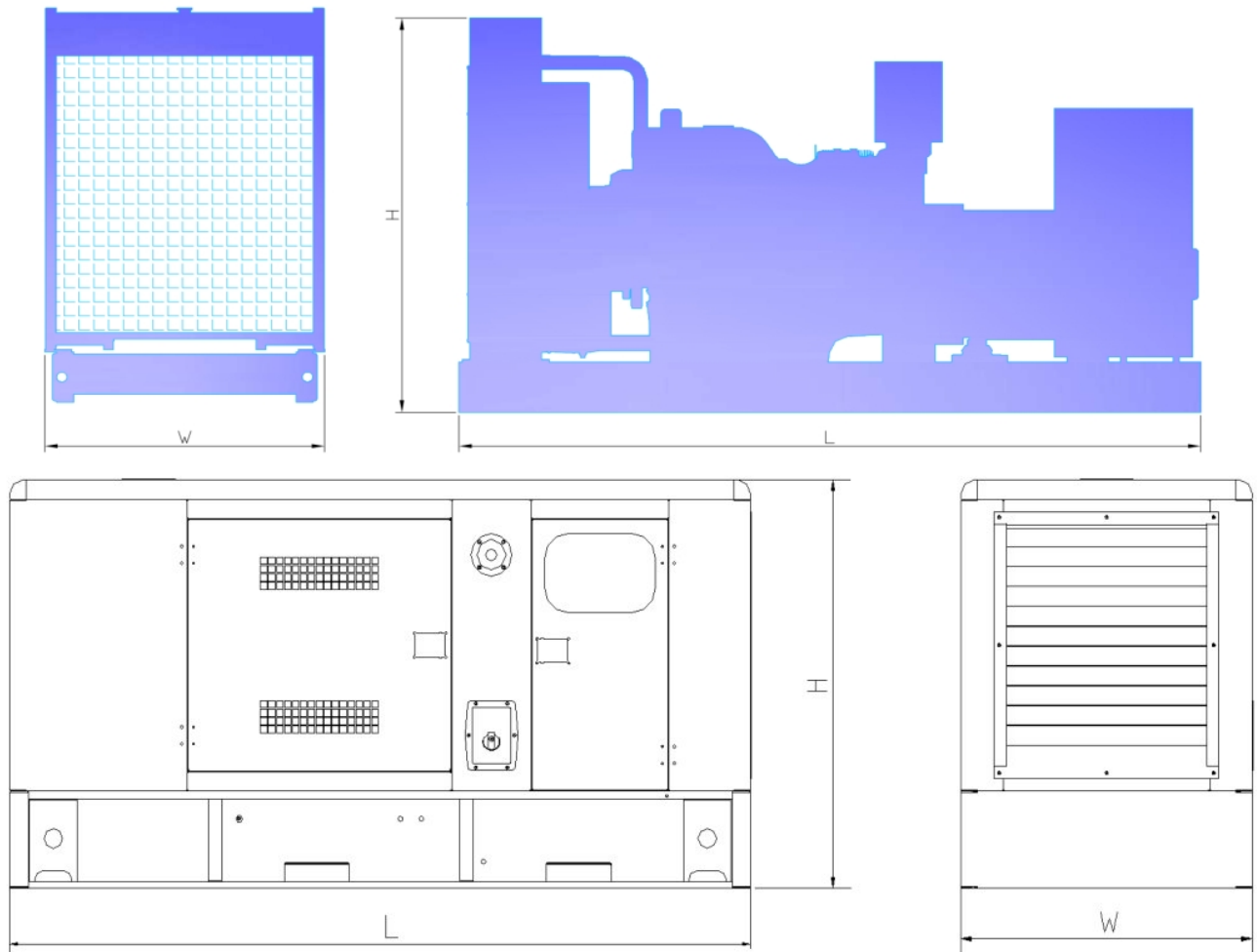
☆ *For more information, please visit the [official website](#)*

- ▲Support for 0-10 V & 4-20 mA oil pressure sensors
- ▲Battery voltage monitoring
- ▲Start on low battery voltage

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)



Intertek

Cumple con UL STD 2200 Certificado para
 CSA STD C22.2 # 100 Certificado para CSA
 STD C22.2 # 14

