

# DIESEL GENERATOR DATA SHEET

## HIPOWER DIESEL GENERATOR Powered by Cummins Model:PGD1575C



### I . GENERAL DATA

Prime Power	kW/kVA	1100	1375
Standby Power	kW/kVA	1260	1575
Frequency	Hz/rpm	60	1800
Voltage	V	440	254
Current	A	1804	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type (L×W×H)	mm	5400×2100×2310	
Open Type(Weight)	kg	9500	
Silent Type (L×W×H)	mm	12192×2438×2896	
Silent Type(Weight)	kg	19500	



■ 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 : Air circuit breaker(ACB)
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

## IV. ENGINE DATA

Engine Model	KTA50-G3	Engine Power	1380	kW
Aspiration	Turbocharged and Aftercooled	Displacement	50	L
Type	60° Vee	Bore×Stroke	159×159	mm
No. of Cylinders	16	Compression Ratio	13.9:1	
Governor Type	Electronic Governor	Rated Speed	1800	RPM

### ■ Fuel System

Prime Power Fuel Consumption	290.6	L/h	Standby Power Fuel Consumption	330.6	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	PT	

### ■ Lubrication System

Lub Oil Capacity	177	L	Lub #	API CF-4 15W40	Max. Temperature	121	°C
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### ■ Coolant System

Coolant Capacity	311	L	Std. Thermostat (Modulating) Range	82 - 93	°C	Max. Top Tank Temp.	104
Cooling Fan Air Flow	2040	m3/min	Fan Drive Method	Shaft drive			

### ■ Air Intake System

Combustion Air Flow	104.76/110.4 m3/min	Maximum Air Intake Restriction	3.7	kPa
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### ■ Exhaust System

Exhaust Gas Flow	238/258	m3/min	Max. Back Pressure	6.8	kPa
Exhaust Gas Temp	≤475	°C	Exhaust Pipe Size	φ200×2	mm

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## ■ Starting System

Start Mode                      DC24V Electric start                      Battery                      4x200                      Ah

## V. ALTERNATOR DATA

Alternator Model	SLG454A	Rate Power	1100/1375	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	94.6%	
Tel. Influence	TIF: <50	Voltage Regulation	±0.5%	
Harmonic Coefficient	THF: <2%	AVR	MX321	
Voltage Adjust Scope	≥±5%	Excitation System	PMG	

## 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

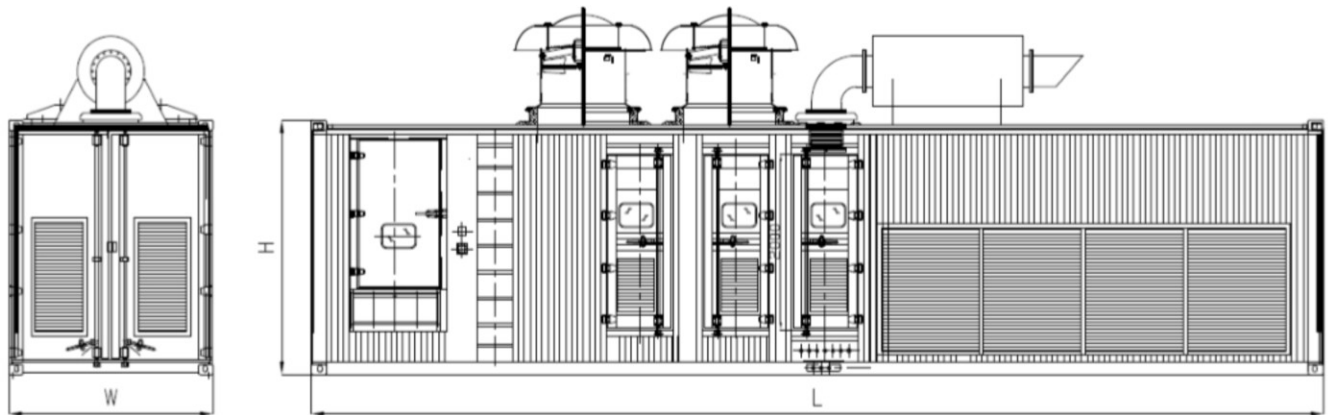
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|--|---|---|
| ▲Utility voltage sensing                               | ▲Configurable staged loading outputs                  | ▲Configurable remote start input                                  |
| ▲Generator/load power monitoring (kW, kV A, kV Ar,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

- ▲ 6 configurable digital inputs
- ▲ Support for 0-10 V & 4-20 mA oil pressure sensors
- ▲ Fuel pump control
- ▲ 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)



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

