

# DIESEL GENERATOR DATA SHEET

## HIPOWER DIESEL GENERATOR Powered by Cummins Model:PGD750C



\*Drawing above for illustration purposes only

### I . GENERAL DATA

Prime Power	kW/kVA	N/A	N/A
Standby Power	kW/kVA	600	750
Frequency	Hz/rpm	60	1800
Voltage	V	440	254
Current	A	984	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type (L×W×H)	mm	3700×1750×2270	
Open Type(Weight)	kg	4650	
Silent Type (L×W×H)	mm	5100×2100×2500	
Silent Type(Weight)	kg	6500	

■ 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	KTAA19-G6A	Engine Power	664	kW
Aspiration	Turbocharged , Air-to-air Cooled	Displacement	19	L
Type	In-line	Bore×Stroke	159×159	mm
No. of Cylinders	6	Compression Ratio	13.9:1	
Governor Type	Electronic Governor	Rated Speed	1800	RPM

### ■ Fuel System

Prime Power Fuel Consumption	N/A	L/h	Standby Power Fuel Consumption	167	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	110	L	Max. Top Tank Temp.	104	
Std. Thermostat (Modulating) Range	82 - 93	°C	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	1008	m3/min			

### ■ Air Intake System

Combustion Air Flow	58.08	m3/min	Maximum Air Intake Restriction	3.7	kPa
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### ■ Exhaust System

Exhaust Gas Flow	159.42	m3/min	Max.Back Pressure	10	kPa
Exhaust Gas Temp	≤502	°C	Exhaust Pipe Size	φ150	mm

## ■ Starting System

Start Mode                      DC24V Electric start                      Battery                      2x200                      Ah

## V. ALTERNATOR DATA

Alternator Model	SLG354E	Rate Power	570/713	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	94.9%	
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                               | ▲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          | ☆ <i>For more information, please visit the <a href="#">official website</a></i> |

- ▲ 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)

