### HIPOWER DIESEL GENERATOR

Powered by Cummins Model:PGD550C





### I . GENERAL DATA

Prime Power	kW/kVA	400	500	
Standby Power	kW/kVA	440	550	
Frequency	Hz/rpm	60	1800	
Voltage	V	220	127	
Current	Α	13	1312	
Connection	/	3P 4	3P 4W/Y	
Rated Power Factor	/	C	0.8	
Open Type(L×W×H)	mm	3500×13	345×2110	
Open Type(Weight)	kg	4200		
Silent Type(L×W×H)	mm	4800×21	.00×2275	
Silent Type(Weight)	kg	54	100	



- 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 Stamford brushless AC alternator

Radiator Silent Type  $50^{\circ}$  (Open Type  $40^{\circ}$ ), fan protective shroud

≤550KW: base mounted fuel tank, anti-vibration pads, battery holder

Base Frame

>550KW: channel steel base frame, anti-vibration pads, battery holder

Circuit Breaker >63A, ≤1250A: Molded case circuit breaker(MCCB)

Control System DEEP SEA 7320

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 ♦ Heavy-duty air filter ♦ Coolant heater ♦ Lub oil heater ♦ Fuel and Water Separator

Alternator And Stamford Steroy Somer Marathon Anti condensation heater PMG

Accessories  $\diamondsuit$  High voltage \_\_\_\_kV

♦50°C radiator ♦ Heat exchanger + water cooling tower + External water circulation pumping

Cooling System system

♦ Remote horizontal water tank system

♦ AMF ♦ Parallel ♦ Practical type in low temperature environment ♦ Control Screen Heater

Control System

♦Other (Comap、DEIF)

Circuit Breaker  $\Diamond$ 3/4 poles  $\Diamond$ Fixed/handcart type  $\Diamond$ Electric mechanism

**Automatic Transfer** 

Swtich

**♦**ATS cabinet

♦ Nickel-cadmium battery ♦ Maintenance-free battery ♦ Power charger and selector

Start Battery

○Charging current meter

External Fuel Tank  $\diamondsuit$  500L  $\diamondsuit$  1000L  $\diamondsuit$  1500L  $\diamondsuit$  2000L  $\diamondsuit$  2500L  $\diamondsuit$  3000L  $\diamondsuit$  4000L  $\diamondsuit$  5000L

Others



IV. ENGINE DATA	1				
Engine Model	QSZ13-G5		Engine Power	500	kW
Aspiration	Turbocharge Air Cooled	ed & Charge	Displacement	13	L
Туре	In-line		Bore×Stroke	130×163	mm
No. of Cylinders	6		Compression Ratio	17:1	
Governor Type	HPCR		Rated Speed	1800	RPM
■ Fuel System  Prime Power Fuel  Consumption  Fuel #	102.1 ASTM D975 BS2869 1998	L/h No.2-D or 3 Class A1, A2	Standby Power Fuel Consumption Injection System	116.9 L/h HPCR	
■ Lubrication System	ı				
Lub Oil Capacity	75.33	L			
Lub #	API CF-4 15V	V40	Max.Temperature	121	${\mathbb C}$
<b>■</b> Coolant System					
Coolant Capacity	77.1	L	Max. Top Tank Temp.	107	
Std. Thermostat (Modulating) Range	°C 82 - 94	$^{\circ}\!$	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	828	m3/min			
■ Air Intake System					
Combustion Air Flow	34.9/35.5	m3/min	Maximum Air Intake Restriction	3.2	kPa
■ Exhaust System					
Exhaust Gas Flow	42.6/43.5	kg/min	Max.Back Pressure	13	kPa
Exhaust Gas Temp	≤476	$^{\circ}\! \mathbb{C}$	Exhaust Pipe Size	ф130	mm
■ Starting System					
Start Mode	DC24V Elect	ric start	Battery	2×150	Ah



### V. ALTERNATOR DATA

Alternator Model	HCI544C	Standby - 150/40°C	465/581	kW/kVA
PF.	0.8	Voltage	220/127	V
Phase	3	Frequency	60	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP23	
Insulation Class	Н	Efficiency	94.5%	
Tel. Influence	TIF: <50	Voltage Regulation	±1%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	Self-excited	

### VI. CONTROL SYSTEM DATA

MODEL DSE7320

#### ■ Main feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant.

The DSE7320 will also monitor the mains (utility) supply.





- ▲4-Line back-lit LCD text display
- ▲ Five key menu navigation
- ▲ Front panel editing with PIN protection
- ▲ Power save mode Customisable status screens
- ▲Support for up to three remote
- ▲9 configurable inputs
- ▲ Display units
- ▲ Flexible sender inputs
- ▲Configurable timers and alarms
- ▲3 configurable maintenance alarms
- ▲ Multiple date and time scheduler
- ▲Configurable event log (250)
- ▲Integral PLC editor
- ▲ Easy access diagnostic page

- ▲Charge alternator failure alarm
- ▲ Manual speed ctrl (on compatible CAN engines)
- ▲CAN and Magnetic Pick-up/Alt sensing
- ▲Overload protection
- ▲ Reverse power (kW & kV Ar) protection
- ▲LED and LCD alarm indication
- ▲ Power monitoring (kW h, kV Ar,kV A h, kV Ar h)
- ▲ Load switching (load shedding and dummy load outputs)
- ▲ Automatic load transfer
- ▲ Unbalanced load protection
- ▲Independent Earth Fault trip
- **▲**USB connectivity
- ☆ For more information, please visit the
- official website

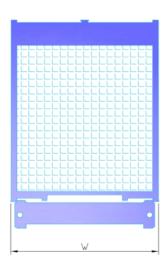
- ▲Tier 4 CAN engine support
- ▲Compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines

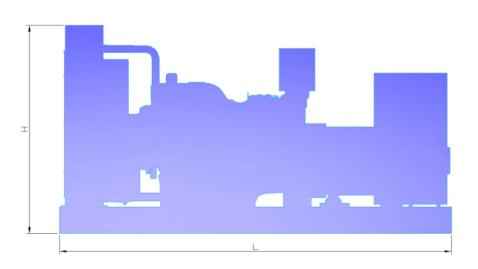


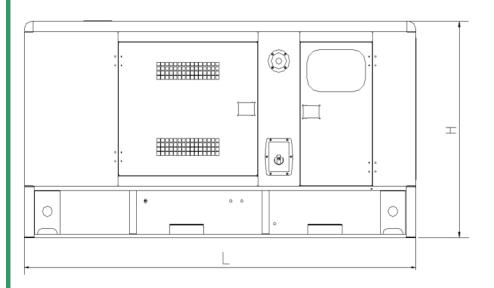
### VII. WARRANTY POLICY

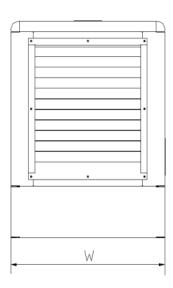
- 1.Guarantee for one year or 1000 hours (accord to whichever reach first) from ex-factory date. Refer to《 Diesel Generator Warranty Manual》 for more details.
- 2. Wearing parts (filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

### 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

