

DGA - CS1650SS

50Hz 1500RPM 1320kW/1650kVA



A. GENERAL FEATURES

- Low noise / super silent canopy design
- Residential silencer with flexible exhaust pipe
- MCCB & maintenance-free starting battery
- External fuel inlet, coolant drain, oil drain
- External power outlet distribution available
- Bunded base with 12-hour base fuel tank
- 40°C Radiator as standard spec.
- Radiator fan is driven by belt with safety guard
- Vibration isolators between engine/alternator and base frame
- All-round protection functions and safety labels
- User manual of engine, alternator, controller

B. GENERAL RATINGS

Voltage	HZ	Phase	Prime Amps	Prime Ratings (kw/kVA)	Standby Ratings (kW/kVA)
380/220	50	3	2241	1180/1475	1320/1650
400/230	50	3	2129	1180/1475	1320/1650
415/240	50	3	2052	1180/1475	1320/1650

- Prime Power: Continuous running at variable load for unlimited periods; 10% overload available for 1 hour in every 12 hours
- DCC Rating 1200kW

DIESEL GENERATION AUSTRALIA

C. ENGINE SPECIFICATIONS

1	ENGINE MANUFACTURER/BRAND	KTA50-GS8
2	AIR INTAKE SYSTEM	Turbocharged, Low Temp. Aftercooled, 4 Cycle
3	FUEL SYSTEM	Direct Injection Cummins PT
4	NO. OF CYLINDERS / CYLINDER ARRANGEMENT	16/ 60° V
5	DISPLACEMENT (L)	50.3
6	BORE x STROKE x (mm x mm)	159×159
7	COMPRESSION RATIO	14.9:1
8	RATED SPEED (RPM)	1500
9	STANDBY POWER @ RATED SPEED (kW)	1429
10	SPEED GOVERNOR	Electronic
11	FUEL CONSUMPTION @ 100% LOAD (L/h)	309
12	FUEL CONSUMPTION @ 75% LOAD (L/h)	238
13	FUEL CONSUMPTION @ 50% LOAD (L/h)	167
14	FUEL CONSUMPTION @ 25% LOAD (L/h)	88
15	TOTAL OIL CAPACITY (L)	204
16	SYSTEM VOLTAGE	DC 24
17	EXCITER TYPE	Single bearing, Brushless, Self-excited
18	RATED OUTPUT PRIME POWER (KVA)	1475
19	RATED SPEED (RPM)	1500
20	RATED FREQUENCY (Hz)	50
21	PHASE	3
22	POWER FACTOR	0.8
23	VOLTAGE ADJUST RANGE	>5%
24	VOLTAGE REGULATION (NL-FL)	<+1%

D. CONTROL SYSTEM

PROTECTION		PARAMETER	
Low Oil Pressure	Battery Charge Failure	Volt	Oil Pressure
Over Speed	High Water Temp	Current	Oil Temp.
Over Load	Over Crank	Power	Power Factor
Over/Low Frequency	Over/Low Volt	Speed	Running Time
			Battery Voltage



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E. ALTERNATOR SPECIFICATIONS

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359

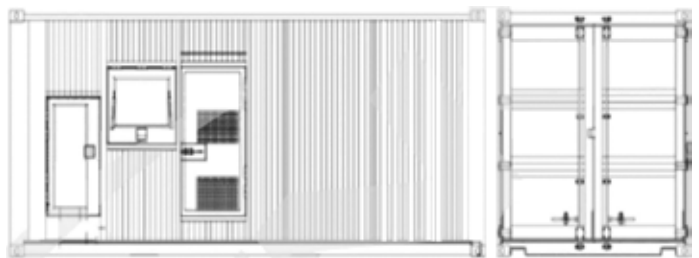
1	ALTERNATOR MANUFACTURER/BRAND	Stamford
2	EXCITER	Single bearing, Brushless, Self-excited
3	RATED SPEED (RPM)	1500
4	RATED FREQUENCY (Hz)	50
5	PHASE	3
6	POWER FACTOR	0.8
7	VOLTAGE ADJUST RANGE	> 5%
8	VOLTAGE REGULATION NL-FL	≤ +1%
9	INSULATION CLASS / TEMPERATURE RISE	H / H
10	ALTITUDE	≤ 1000m
11	PROTECTION GRADE	IP23

F. MAIN ELECTRICAL PERFORMANCE

VOLTAGE				FREQUENCY			
Stable Regulation Rate	Fluctuation	Recover Time	Instantaneous Regulating Rate	Stable Regulation Rate	Instantaneous Regulating Rate	Recover Time	Fluctuation
+ / - 2.5%	0.5%	1.5s	+20% / -15%	+5%	+ / -10%	5s	0.5%

G. DIMENSIONS & WEIGHT

CANOPY TYPE (DGA-CS1650SS)	
Length	12192mm
Width	2438mm
Height	2591mm
Weight	20,500KG



OPEN TYPE (DGA-CS1650SS)	
Length	9192mm
Width	2060mm
Height	2450mm
Weight	11500kg

