shindaiwa®

SPECIFICATIONS

Diesel Engine Generator

DGK25F

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CHAPTER 1: GENERAL

1. Application

(1) Power Source for light, electric tools and appliances.

2. Standard

Design and production are in conformity with:

- (1) Japan Industrial Standards: JIS C 9300-1
- (2) Low Noise Type Construction Machinery Standard
- (3) EPA Tier 4 final

3. Design Condition

(1) Installation Place: Outside

(2) Ambient Temperature: 5 to 104° F (-15 to +40°C)

(3) Humidity: Less than 85%

(4) Altitude: Less than 984 ft. (300 meters) above sea level

4. Test and Check

Test shall be done with a complete workable unit of the diesel engine unit.

Check Items:

- (1) Insulation and Dielectric Test
- (2) Starting
- (3) Protection Device Working Test
- (4) Voltage Deviation and Speed Variation: 0-4/4 Load
- (5) Load Test: Welding and Generating 4/4 Load

5. Painting

Painting and color specifications are as per manufacturer's standard.

6. Structure

(1) Vibration Proof Device

Alternator is directly coupled with engine and both are installed on the bed through the vibration proof device.

(2) Low Noise

Low noise structure is put in the inside of the bonnet. Sound Level: 58dB(A) @7m distance under no load.

(3) Fuel Tank

A steel fuel tank is equipped and incorporated with the electrical level gauge.

CHAPTER 2: SPECIFICATIONS

Rated Frequency		Model	Unit		DGK25F	
Rated Output(Prime)		Generator Type	-			
Rated Output(Prime) Single phase KW 15 [7.5] *1 KVA 15 [7.5] *1 KWA 15		Rated Frequency	Hz		60	
Rated Output(Prime) Single phase KVA			Three phase	kVA	25	
Single phase		Datad Output/Drima)	rnree phase	kW	20	
Standby Output		Rated Output(Prime)	Cinale phase	kVA	15 [7.5] *1	
Standby Output Standby Output Single phase KW 16.5 [8.3] *1			Single phase	kW	15 [7.5] *1	
Standby Output Single phase KVV Lost Lost Lost KVV Lost Lost Lost KVV Lost Lost KVV Lost			Three phace	kVA	27.5	
Rated Voltage		Standby Output	rniee phase	kW	22	
Rated Current	_	Standby Output	Single phase	kVA	16.5 [8.3] *1	
Rated Current	ato		Siligle priase	kW	16.5 [8.3] *1	
Rated Current	ern	Rated Voltage			208/240/ [480] *1	
Rated Current	Alte	Nateu voitage				
Rated Current						
Single phase-120V A 62.5×2 [31.3 x 2]*1			•			
Power Factor		Rated Current				
Power Factor			· ·			
Insulation class			Single phase-240V	Α		
Excitation			-		Three phase 0.8, Single phase 1.0	
No. of Poles			-		F	
Type			-			
Model(Manufacturer)			-		•	
No. of Cylinders (bore × stroke)			-			
(bore × stroke) Continuous Rated Output Rated Speed rpm 1,800 Displacement cu.in./liters 133/2.179 Combustion System Cooling Method Starting Method Fuel Lubricating Oil Fuel Tank Capacity Lubricant Volume Cooling Water Volume Starting Motor Capacity Charging Alternator Capacity Battery Capacity V-Ah Starting Method Starting Method Fuel Cooling Water Volume Starting Motor Capacity Charging Alternator Capacity V-Ah Starting Motor Capacity Starting Motor Capacity V-Ah Starting Motor Capacity Starting Motor Capacit			-		4LE21(ISUZU)	
Continuous Rated			(in./mm)		4(3.35x3.78 /85x96)	
Output		, ,	_			
Rated Speed rpm 1,800 Displacement cu.in./liters 133/2.179 Combustion System - Direct injection (Turbo-charged) Cooling Method - Water cooled Starting Method - Electric Fuel - No.2-D,S15 EPA regulation Lubricating Oil - API service-type CJ-4 class Fuel Tank Capacity gal./liters 51.5/195 Lubricant Volume gal./liters 2.7/10.4(including filter 0.1/0.4) Cooling Water Volume gal./liters 2.6/10(including sub-tank 0.3/1.0) Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875			hp		33.5	
Combustion System Cooling Method Starting Method Starting Method Fuel Lubricating Oil Fuel Tank Capacity Cooling Water Volume Starting Motor Capacity Charging Alternator Capacity Battery Capacity Charging Alternator Capacity Starting Method - Cooling Water Volume Starting Motor Capacity Charging Alternator Capacity Charging Alternator Capacity V-Ah Starting Motor Capacity V-Ah Starting Method Starting M			rpm		1,800	
Cooling Method - Water cooled		Displacement			<u> </u>	
Cooling Method - Water cooled	υ	Combustion System	-			
Fuel - No.2-D,S15 EPA regulation Lubricating Oil - API service-type CJ-4 class Fuel Tank Capacity gal./liters 51.5/195 Lubricant Volume gal./liters 2.7/10.4(including filter 0.1/0.4) Cooling Water Volume gal./liters 2.6/10(including sub-tank 0.3/1.0) Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-A 12-50 Battery Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875	gin		-		· · · · · · · · · · · · · · · · · · ·	
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Lubricating Oil Fuel Tank Capacity gal./liters Lubricant Volume Gooling Water Volume Starting Motor Capacity Charging Alternator Capacity Battery Capacity V-A Battery Capacity V-Ah Length in./mm Starting Motor Battery Capacity V-Ah Length In./mm Starting Motor Battery Capacity V-Ah Length In./mm Starting Starting Motor Starting Motor Capacity V-Ah Starting Motor Capacity Starting Motor Capacity V-Ah Starting Motor Capacity V-Ah Starting Motor Capacity Starting Motor Capacity Starting Motor Capacity V-Ah Starting Motor Capacity Starting Moto			-			
Lubricant Volume gal./liters 2.7/10.4(including filter 0.1/0.4) Cooling Water Volume gal./liters 2.6/10(including sub-tank 0.3/1.0) Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-A 12-50 Battery Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875		Lubricating Oil	-			
Cooling Water Volume gal./liters 2.6/10(including sub-tank 0.3/1.0) Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-A 12-50 Battery Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875			gal./liters		 	
Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-A 12-50 Battery Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875		Lubricant Volume				
Starting Motor Capacity V-kW 12-2.0 Charging Alternator Capacity V-A 12-50 Battery Capacity V-Ah 12-72 Length in./mm 63/1,603 Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875	Unit	Cooling Water Volume			` ,	
Battery Capacity V-Ah 12-72		Starting Motor Capacity				
Battery Capacity V-Ah 12-72		, ,	V-A		12-50	
Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875		Battery Capacity	V-Ah		12-72	
Width in./mm 33/850 Height in./mm 55/1,400 Dry Weight lbs./kg 1,929/875			in./mm		63 /1,603	
Height in./mm 55/1,400 Dry Weight Ibs./kg 1,929/875			in./mm		33 /850	
Dry Weight Ibs ./kg			in./mm		55 /1,400	
					· · · · · · · · · · · · · · · · · · ·	
					·	

^{*}Specifications subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

((1)	Generator	
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Voltage Meter1Amp. Meter1Freq. Meter1Voltage Regulator1Amp. Meter Selector1Breaker Trip Selector1Voltage Selector Switch1Single Phase Receptacle (120V)2Single Phase Receptacle (240/120V)2	pc. pc. pc. pc. pc. pc. pc.
(2) Safety Device	
Breaker Main Breaker (3-Phase)	pc. pc. pc
Auto Shut off Feature (when some mechanical issue was detected.)	
(3) Equipment	
Starting Switch	pc. pc. pc. pc. pc.

Glow Lamp (Preheat Lamp)	1 pc.
Output Selector Switch	1 pc.
(3-phase: 480/277V, 208/120V, 1-phase: 240/	120V)
Fuel Tank	1 pc.
Fuel Meter	1 pc.
Fuel Filter (w/ fuel strainer)	1 pc.
Spill Containment	1 pc.
Hour Meter	1 pc.
Engine Monitor	1 pc.
Oil Pressure	
Water Temp.	
 Engine Speed 	
Breaker Trip Selector Switch	1 pc.
Air Cleaner	1 pc.
Fuel Drain Plug	1 pc.
Oil Drain Plug	
Cooling Water Drain Plug	1 pc.
Noise Reduction Air Flow System	•
"Made in Japan"	·

2. Feature

(1) Feature

• Sound Level 62DB(A) at 7m distance under no load

• "Simul Phase" (3-phase & 1-phase)

• Generating Performance 3-phase & 1-phase

• 2 Way Drive Control Run/Idle

• Environmental EPA Tier 4 Final & Noise Reduction

Fuel Tank Capacity
 Dry Weight
 51.5 gal. (195 Liters)
 1,929 lbs. (875 kg)

• Dimensions (LxWxH) 63 x 33 x 55 in. (1,603 x 850 x 1400 mm)

• Made in Japan

(2) Protection Device

Item	Set Value	Monitor Lamp	Auto Engine Shut off
Water Temp.	212° F/100℃	✓	✓
Oil Pressure	14psi/98kPa	✓	>
Battery Charge	-	~	-
Engine Speed	2070min ⁻¹	~	✓
Air Filter	when clogged -	✓	
Spill Containment	17 gal./64.3 liters	~	>
Overload	Breaker trips.	-	-

(3) Fuel Economy

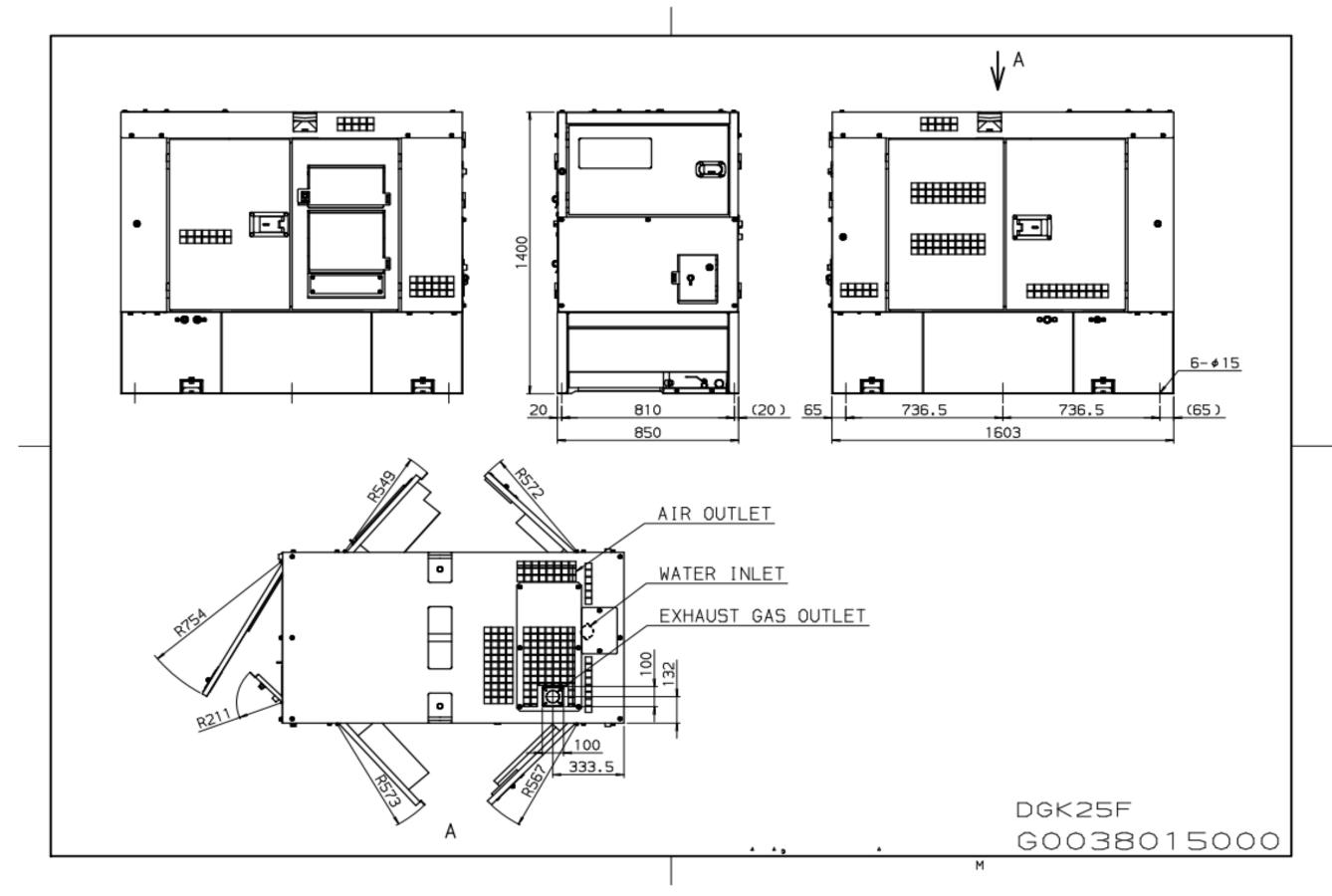
Criteria	Fuel Consumption	Continuous Operating Hrs
Full load	1.59 gal./hr (6.0L/hr.)	32
3/4 load	1.22 gal./hr (4.6 L/hr.)	42
1/2 load	0.92 gal./hr (3.5 L/hr.)	55
1/4 load	0.66 gal./hr. (2.5 L/hr.)	79
No Load	n/a	n/a

(4) Accessories

Owner's & Operator's Manual 1 copy Engine Instruction Manual 1 copy

Starter Key 2 pcs.

CHAPTER 4: APPEARANCE



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