shindaiwa®

SPECIFICATIONS

Diesel Engine Generator

DGK15F

CONTENTS CHAPTER 1: GENERAL······ 1. Application 2. Standard 3. Design Condition 4. Test and Check 5. Painting 6. Structure **CHAPTER 2: SPECIFICATIONS······2 CHAPTER 3: EQUIPMENT AND FEATURE......3** 1. Equipment (1) Generator (2) Safety Device (3) Equipment (1) Feature (2) Protection Device (4) Accessory **CHAPTER 4: APPEARANCE·····**6

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 80%

(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: 67dB(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

Model		Unit		DGK15F	
	Generator Type	-		Revolving Field Brushless	
	Rated Frequency	Hz		60	
Alternator		T	kVA	15	
	D (10 ((/D:)	Three phase	kW	12	
	Rated Output(Prime)	0: 1 1	kVA	9	
		Single phase	kW	9	
		T1 1	kVA	16.5	
	04	Three phase	kW	13.2	
	Standby Output	Single phase	kVA	9.9	
			kW	9.9	
	Rated Voltage	Three phase	V	208/240	
₹		Single phase	V	120/139/240	
		Three phase-208V	Α	36.1	
	Rated Current	Three phase-240V	Α	36.1	
	Nated Current	Single phase-120V	Α	37.5×2	
		Single phase-240V	Α	37.5	
	Power Factor	-		Three phase 0.8, Single phase 1.0	
	Insulation class	-		F	
	Excitation	-		Self-Excitation (brushless)	
	No. of Poles	-		2	
	Туре	-		Vertical Water-Cooled 4-Cycle Diesel	
	Model(Manufacturer)	-		D902(KUBOTA)	
	No. of Cylinders	(in./mm)		3(2.83x3.78 /72x73.6)	
	(bore × stroke)	(
	Continuous Rated Output	hp		20.7	
	Rated Speed	rpm		3,600	
	Displacement	cu.in./liters		55 /0.898	
4	Combustion System			Indirect Injection	
Engine	Cooling Method			Water cooled	
l ii	Starting Method	-		Electric	
"	Fuel	-		No.2-D,S15 EPA regulation	
	Lubricating Oil			API service-type CD class or better	
	Fuel Tank Capacity	gal./liters		9.6/36.4	
	Lubricant Volume	gal./liters		0.95 /3.6	
	Coolant Volume	gal./liters		1.1 /4.1(including sub-tank 0.16 /0.6)	
		_			
	Width			25 /640	
Init				35 /895	
ر		lbs./kg		926 /420	
Unit	Starting Motor Capacity Charging Alternator Capacity Battery Capacity Length	V-kW V-W V-Ah in./mm in./mm		12-1.2 12-150 12-36 52/1,310 25/640 35/895	

^{*}Specifications subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator	(1)	Gene	erator
---------------	-----	------	--------

Voltage Meter 1 pc. Amp. Meter 1 pc. Freq. Meter 1 pc. Voltage Regulator 1 pc. Amp. Meter Selector 1 pc. Breaker Trip Selector 1 pc. Voltage Selector Switch 1 pc. Single Phase Receptacle (120V) 2 pcs. Single Phase Receptacle (240/120V) 1 pc.
(2) Safety Device
Breaker ●Main Breaker (3-Phase) 1 pc. ●Main Breaker (1-Phase) 1 pc. ●3-Phase Breaker 1 pc. ●1-Phase Breaker (120V) 2 pcs. ●1-Phase Breaker (240/120V) 1 pc.
Protection Monitor
Door with locking feature (all external door/cover)
Auto Shut off Feature (when some mechanical issue was detected.)
(3) Equipment
Starting Switch

Glow Lamp (Preheat Lamp)	1 pc.
Spill Containment Over Flow Lamp	1 pc.
Output Selector Switch (3-phase & 1-phase)	1 pc.
Fuel Tank	1 pc.
Fuel Meter	1 pc.
Fuel Filter (w/ fuel strainer)	1 pc.
Spill Containment	1 pc.
Hour Meter	1 pc.
Breaker Trip Selector Switch	
Air Cleaner	1 pc.
Fuel Drain Plug	1 pc.
Oil Drain Plug	1 pc.
Water Drain Plug	
Noise Reduction Air Flow System	1 pc.
"Made in Japan"	

2. Feature

(1) Feature

• Sound Level 67DB(A) at 7m distance under no load

• "Simul Phase" (3-phase & 1-phase)

• Generating Performance 3-phase & 1-phase

• Environmental EPA Tier 4 Final & Noise Reduction

Fuel Tank CapacityDry Weight9.6 gal. (36.4 Liters)926 lbs. (420 kg)

• Dimensions (LxWxH) 52 x 25 x 35 in. (1310 x 640 x 895 mm)

• Made in Japan

(2) Protection Device

Item	Set Value	Monitor Lamp	Auto Engine Shut off
Water Temp.	239° F/115℃	~	~
Oil Pressure	14psi/98kPa	~	~
Battery Charge	-	~	-
Engine Speed	4140min ⁻¹	~	~
Air Filter	when clogged -	~	
Spill Containment	13.7 gal./51.7L	~	~
Overload	Breaker trips.	-	1

(3) Fuel Economy

Criteria	Fuel Consumption	Continuous Operating Hrs
Full load	1.24 gal./hr (4.7 L/hr.)	8
3/4 load	1.03 gal./hr (3.9 L/hr.)	9
1/2 load	0.84 gal./hr (3.2 L/hr.)	12
1/4 load	0.66 gal./hr. (2.5 L/hr.)	15
No Load	n/a	n/a

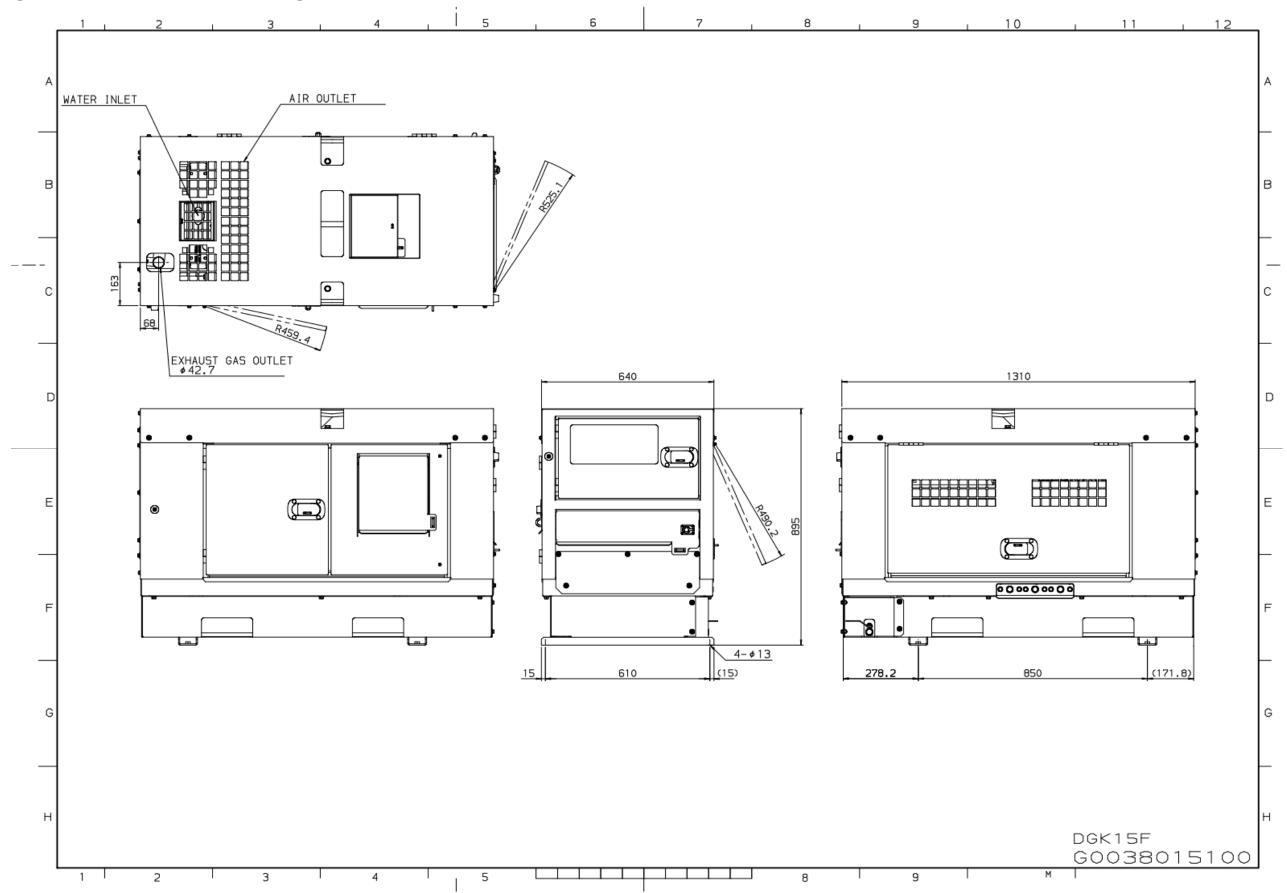
^{*}Above value would change according to the condition in use.

(4) Accessory

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

Starter Key 2 pcs.

CHAPTER 4: APPEARANCE



YAMABIKO CORPORATION

35 SHIN-UJIGAMI, KITA-HIROSHIMA-CHO, YAMAGATA-GUN, HIROSHIMA 731-1597 JAPAN

> Telephone: (81)826-72-5140 Fax: (81) 826-72-7004 www.yamabiko-corp.co.jp