shindaiwa®

SPECIFICATIONS

DieselEngineGenerator **DGK11F**

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CHAPTER 1: GENERAL

1. Standards

Design and production are in conformity with:

- (1) Japan Industrial Standards: JIS C 9300-1
- (2) Low Noise Type Construction Machinery Standard
- (3) Voluntary Emission Regulations for non-road engines in Japan by MLIT. (Tier 3)
- (4) EPA Tier 4 Final Emission Standards
- (5) CARB Emission Standards

*MLIT stands of Ministry of Land, Infrastructure, Transport and Tourism.

2. Design Conditions

(1) Installation Place: Outside Only.

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

(3) Humidity: Less than 80%

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

3. Test and Check

Test shall be conducted 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

4. Painting

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

5. Structure

(1) Bed and 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: 60dB(A) @7m distance at full load.

(3) Fuel Tank

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

CHAPTER 2: SPECIFICATIONS

	Model	Unit	DGK11F	
Alternator	Generator Type	-	Revolving Field Brushless	
	Armature Connection	-	Zigzag-W	
	Rated Frequency	Hz	60	
	Rated Output(Prime)	kVA	11	
		kW	11	
	0, " 0, ,	kVA	12	
	Standby Output	kW	12	
	Rated Voltage	V	240/120	
A	Rated Current	Α	45.8	
	Phase		Single Phase	
	Power Factor	-	1.0	
	Insulated Classification	-	F	
	Excitation	-	Self Excitation (Brushless)	
	No. of Poles	-	4	
	Туре	-	Vertical Water-Cooled 4-Cycle Diesel	
	Model (Manufacturer)	-	D1503 (KUBOTA)	
	No. of Cylinder	(in./mm)	3/ 3 27×3 64 /83×02 4)	
	(Bore × Stroke)	(111./111111)	3(3.27×3.64 /83×92.4)	
	Rated Output	HP	19.5	
	(Continuous)			
	Rated Speed	rpm	1800	
	Displacement	cu.in./liter	91.5 /1.499	
	Combustion	-	Indirect Injection	
Engine	Cooling	-	Radiator	
ngi	Lubrication	-	Forced Lubrication	
Ш	Starting	-	Electric	
	Fuel	-	No.2-D,S15 EPA regulation	
	Lubricating Oil	-	CD class or higher	
	Fuel Tank Capacity	gal./liter	16 /62	
	Lubricant Volume	gal./liter	1.9 /7.3 (including filter 0.1 /0.3)	
	Cooling Water Volume	gal./liter	2.3 /8.8 (including sub-tank 0.3 /1.1)	
	Starting Motor Capacity	V-kW	12-1.4	
	Charging Alternator	V-A	12-30	
	Capacity			
	Battery Capacity	V-Ah	12-55	
	Length	in./mm	55 /1390	
ij	Width	in./mm	28 /704	
Unit	Height	in./mm	40 /1012	
	Dry Weight	lbs./kg	1246 /565	
	Net Weight	lbs ./kg	1411 /640	

^{*}Specifications are subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator AC Voltage Adjusting Dial......1 pc. (2) Safety Device Breaker - with leakage shut off device......1 pc. •Battery Charge (with auto engine shut-down feature) •Oil Pressure (with auto engine shut-down feature) •Water Temperature (with auto engine shut-down feature) Over Speed (with auto engine shut-down feature) •Spill Containment (with auto engine shut-down feature) Air Filter Clogging (3) Equipment Air Cleaner 1 pc. Hour Meter......1 pc. Low Noise Air Flow System

2. Feature

(1) Feature

Sound Level 60B(A) at 7m distance at full load.

• Generating Performance 1-Phase

2 Way Drive Control
Environmental
Fuel Tank Capacity
Dry Weight
High/Low Speed
Quiet Sound System
16 gal. (62 Liters)
1246 lbs. (565 kg)

• Dimensions (LxWxH) 55" x 28" x 40" (1390 x 704 x 1012 mm)

(2) Protection Device

Item	Set Value	Engine Shut-Down
High Water Temp.	239° F/115°C	✓
Low Battery Charge	1.23	>
Low Oil Pressure	7 psi/49kPa	~
Over Speed	2070 rpm/60Hz	✓
Spill Containment	Approx. 6 gal./24 L	V

(3) Fuel Economy

Criteria	Fuel Consumption	Continuous Operation Hours
Full load	1.08 gal./hr (4.1L/hr.)	15 hrs.
3/4 load	0.81 gal./hr (3.1L/hr.)	20 hrs.
1/2 load	0.63 gal./hr (2.4L/hr.)	26 hrs.
1/4 load	0.44 gal./hr (1.7L/hr.)	36 hrs.

^{*}Above value is for reference only as it may vary depending on the conditions.

(4) Spill Containment and Environmental

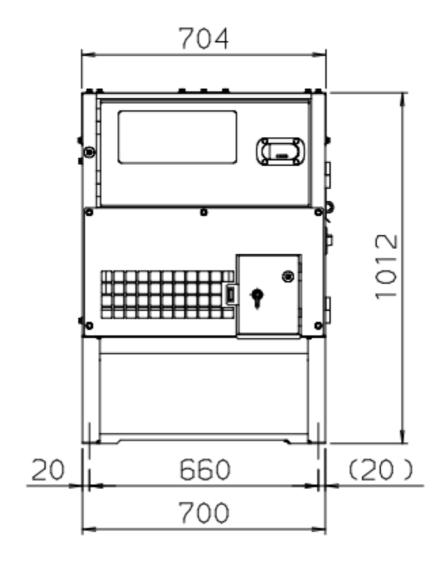
Spill containment device is equipped for the environmental protection. In case inflammable fluid (fuel & oil) and chemical fluid (coolant) leak, fluids are drained to the spill containment and prevent external leak. Volume of the spill containment tank covers more than all fluids in the equipment as shown below.

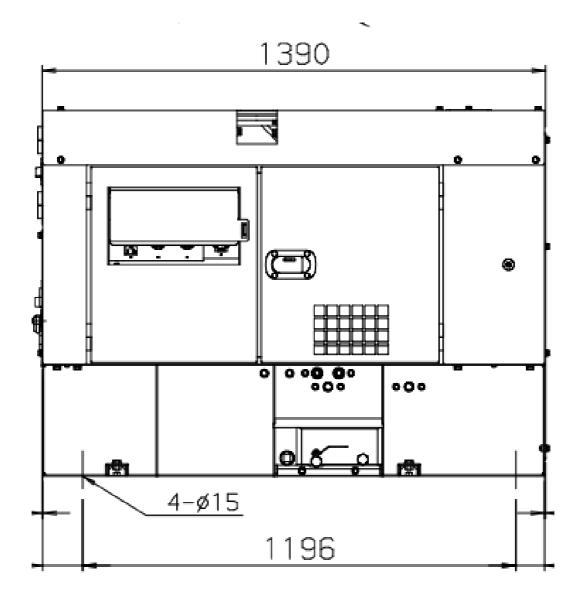
	31 gal.(118L)	Fuel Tank	16 gal.(62L)
Spill Containment		Lubricant Oil	1.9 gal. (7.3L)
		Coolant	2.3 gal.(8.8L)
Total	31 gal.(118L)		20.6 gal.(78.1L)
	150%		100%

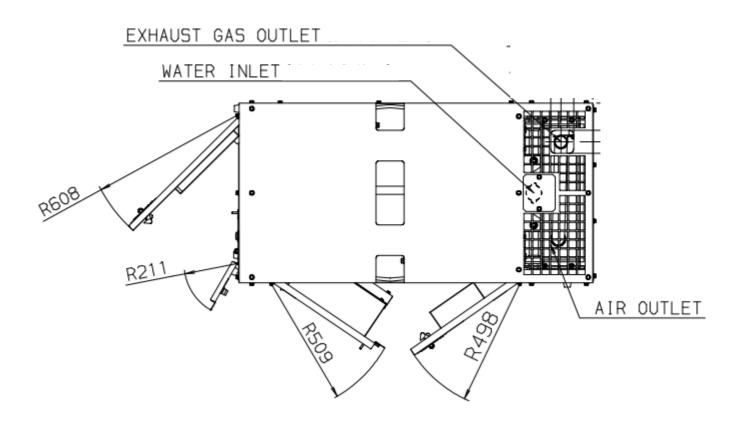
(5) Accessories

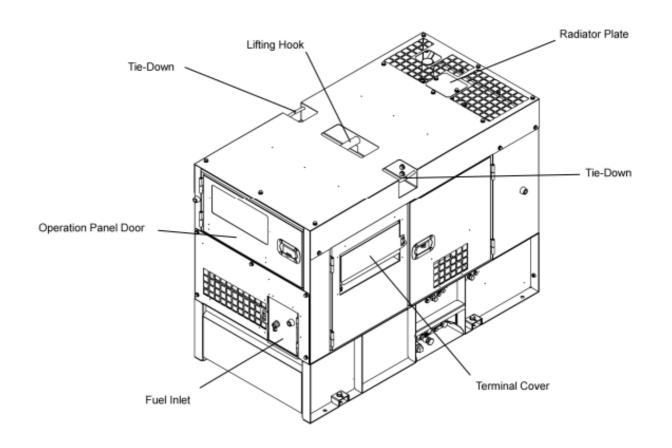
Operator's Manual	1 сору
Engine Warranty Manual	1 copy
Starter Key	2 pcs.

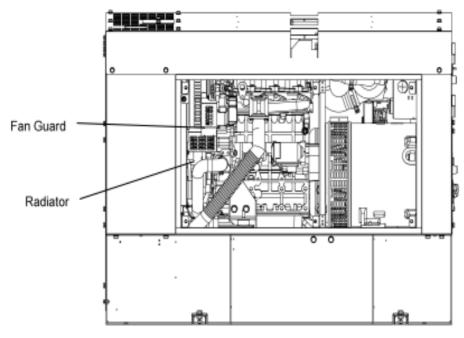
CHAPTER 4: APPEARANCE



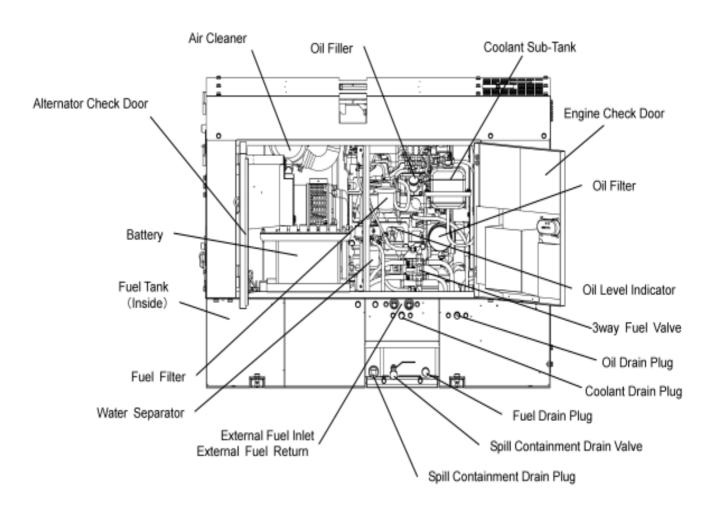








* Shown with side-plate removed.



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