

SPECIFICATIONS

Diesel Engine Generator

DDP150T3

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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 LEMA. (Tier 3)
- (4) EPA Tier 3 Emission

*LEMA stands of Japan Land Engine Manufacturers Association.

2. Design Conditions

- (1) Installation Place: Outside Only.
- (2) Ambient Temperature: -15 to +40°C (5 to 104°F)
- (3) Humidity: Less than 85%
- (4) Altitude: Less than 1000 meters (3280 ft.) above sea level

3. 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

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: 59dB(A) @7m distance under no load, 1800 min⁻¹.

- (3) Fuel Tank

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

CHAPTER 2: SPECIFICATIONS

Model		Unit	RDA150T3	
Alternator	Generating Type	-	Rotating Filed, Brushless 3-Phase Synchronous Alternator	
	Rated Output	kVA	150	
		kW	120	
	Voltage – Three phase	V	208 / 480	
	Voltage – Single phase	V	120 / 240 / 277	
	Amps	Three phase – 480V	A	180
		Three phase – 208V	A	416
		Single phase – 240V	A	361 (zigzag)
		Single phase – 120V	A	361 x 2 (zigzag)
	Rated Frequency	Hz	60	
	Winding	-	3-phase, 4-wire Star with neutral / Zig-zag	
	Power factor	%	80	
	Insulation class	-	F	
Excitation	-	Self-Excitation(Brushless)		
No. of poles	-	4		
Engine	Types	-	Vertical Water-cooled 4-cycle Diesel Engine	
	Model (Manufacturer)	-	6HK1 (ISUZU)	
	No. of Cylinders (bore x stroke)	(in. / mm)	6 (4.53x4.92 / 115x125)	
	Continuous rated output	kW	142	
		HP	190	
	Rated speed	rpm	1800	
	Displacement	cu.in. / liters	475.4 / 7.790	
	Combustion system	-	Direct Fuel Injection with Turbo Charger	
	Cooling method	-	Radiator	
	Lubricating method	-	Forced lubrication	
	Starting method	-	Electric start	
	Fuel	-	Diesel	
	Lubricant oil	-	CD class	
	Fuel tank capacity	gal. / liters	74 / 280	
	Lubricant volume (Full)	gal. / liters	10 / 38	
	Cooling water volume	gal. / liters	6.3 / 23.8	
	Starting motor capacity	V-kW	24 – 5.0	
	Charging dynamo capacity	V-A	24 - 50	
	Battery	-	105E41R x 2	
	Battery capacity	V-AH	12(V) – 100AH	
Unit	Length	in. / mm	135.8 / 3450	
	Width	in. / mm	48.8 / 1240	
	Height	in. / mm	72.8 / 1850	
	Dry Weight	lbs. / kg	6504 / 2950	
	Installed Weight	lbs. / kg	7187 / 3260	

*Outputs shown in above *1 are when the voltage selector switch is set at 240V.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator

AC Output Receptacle	
1-Phase Receptacle (120V).....	2 pcs.
1-Phase Receptacle (240/120V).....	3 pcs.
Circuit Breaker (120V).....	2 pcs.
Circuit Breaker (240/120V).....	3 pcs.
Main Circuit Breaker.....	1 pc.

(2) Safety Device

Emergency Stop Button	1 pc.
Terminal Cover.....	1 pc.
Fuel Inlet Cover with locking structure	1 pc.
Protection Monitor with automatic engine shutdown feature	1 set.

(3) Equipment

Warning Monitor.....	1 set
• Diagnosis	
• Boost	
• Battery Charge	
• Oil Pressure	
• Over Heat	
• Over Speed	
Volt Meter.....	1 pc.
Amp. Meter	1 pc.
Frequency Meter.....	1 pc.
Volt Meter Selector Switch	1 pc.
Voltage Selector Switch	1 pc.
Amp. Meter Selector Switch	1 pc.
Voltage Adjusting Regulator	1 pc.
Fuel Meter.....	1 pc.
Oil Pressure Meter	1 pc.
Water Temp. Meter.....	1 pc.
Hour Meter	1 pc.
Voltage Regulator	1 pc.
Ultra-Quiet Air Flow System	
Auto Start Switch (Optional)	

2. Feature

(1) Feature

- Sound Level 59dB(A) at 7m distance under no load, 1800 min⁻¹.
- Generating Performance 1-phase & 3-phase
- 2 Way Drive Control High/Low Speed
- Environmental EPA Phase 3 Compliance, Ultra-Quiet
- Fuel Tank Capacity 74 Liters (280 gal.)
- Dry Weight 2,950 kg (6,504 lbs.)
- Dimensions (LxWxH) 3450 x 1240 x 1850 mm (135.8 x 48.8 x 72.8 in.)

(2) Protection Device

Item	Set Value	Engine Shut-Down
High Coolant Temp.	221°F	○
Low Oil Pressure	14.5 psi	○
Low Battery Charge	-	-
Diagnosis	-	△
High Boost Temp.	185°F	-
Over Speed	2070 min ⁻¹	-

(3) Fuel Economy

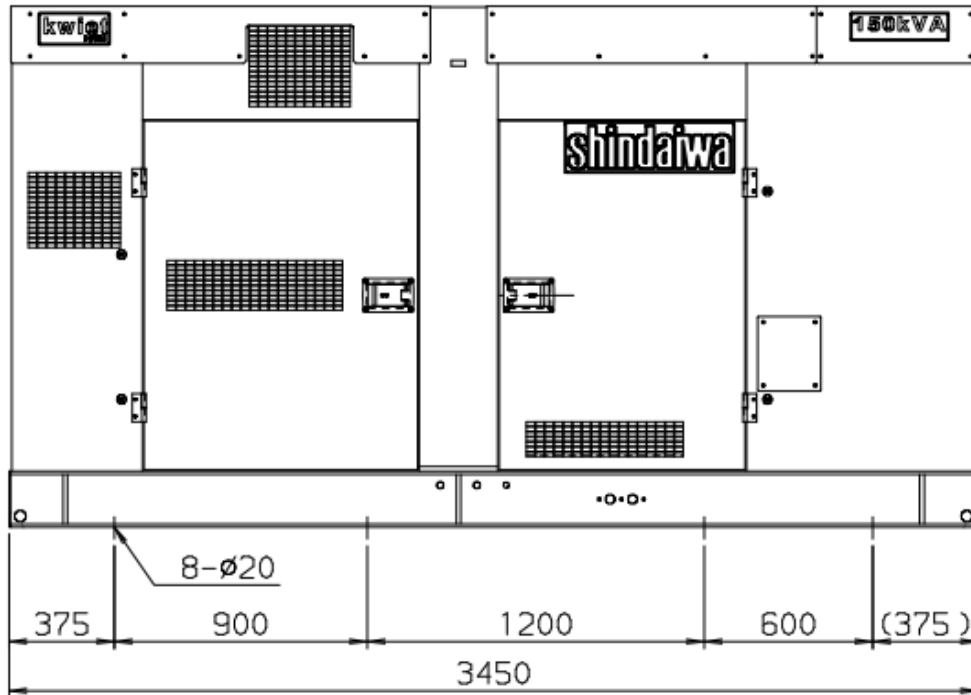
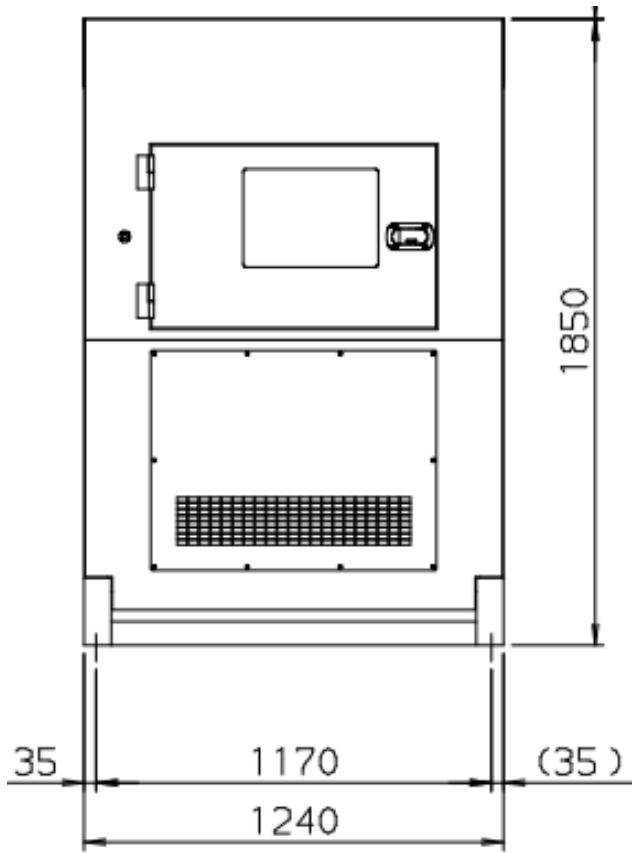
Load	Fuel Consumption
Full load	32L/hr. (8.45 gal./hr.)
3/4 load	25L/hr. (6.6 gal./hr.)
1/2 load	17L/hr. (4.5 gal./hr.)
1/4 load	10L/hr. (2.6 gal./hr.)

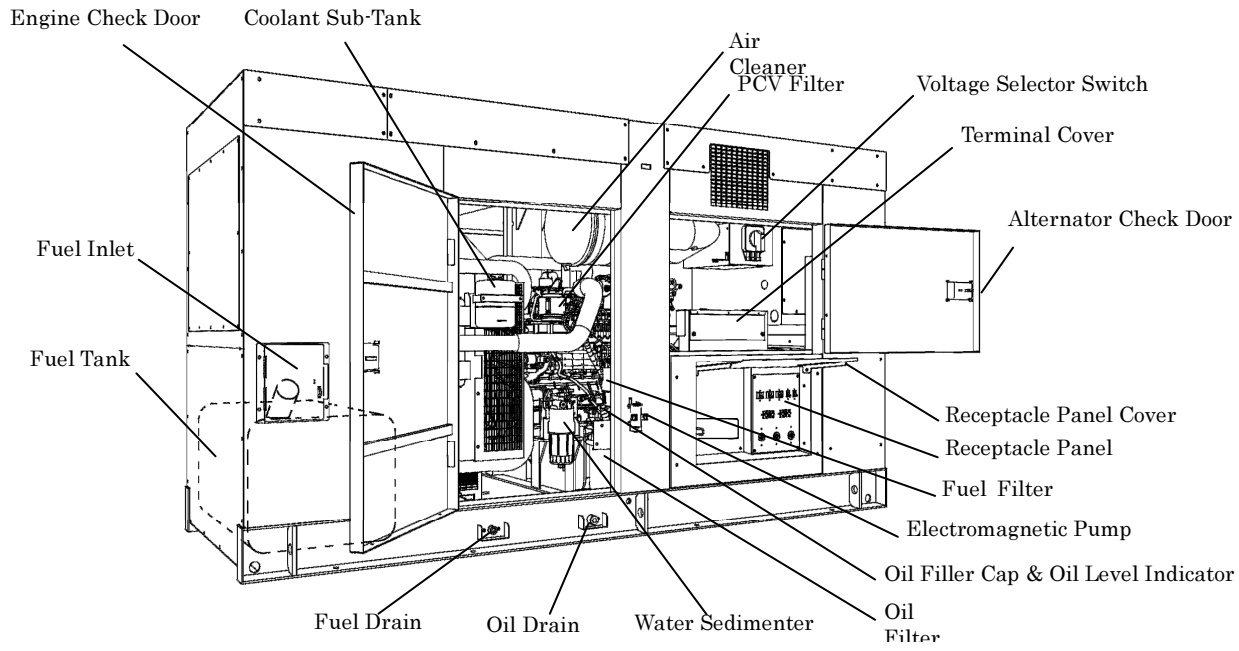
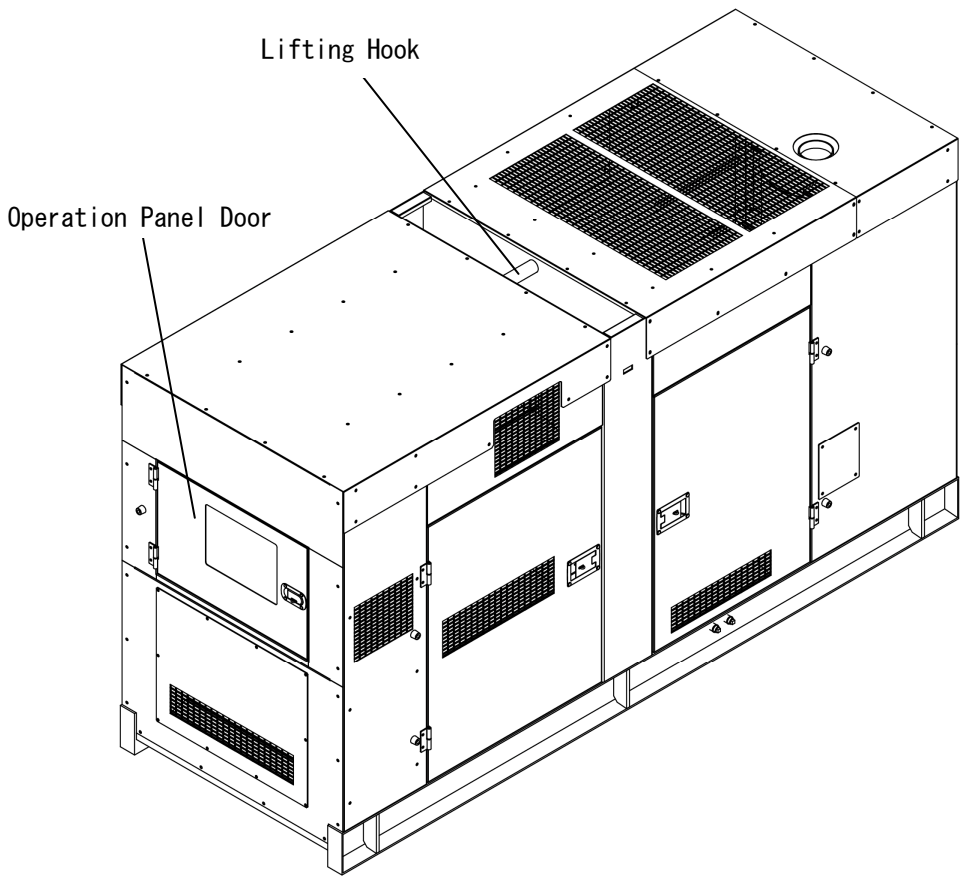
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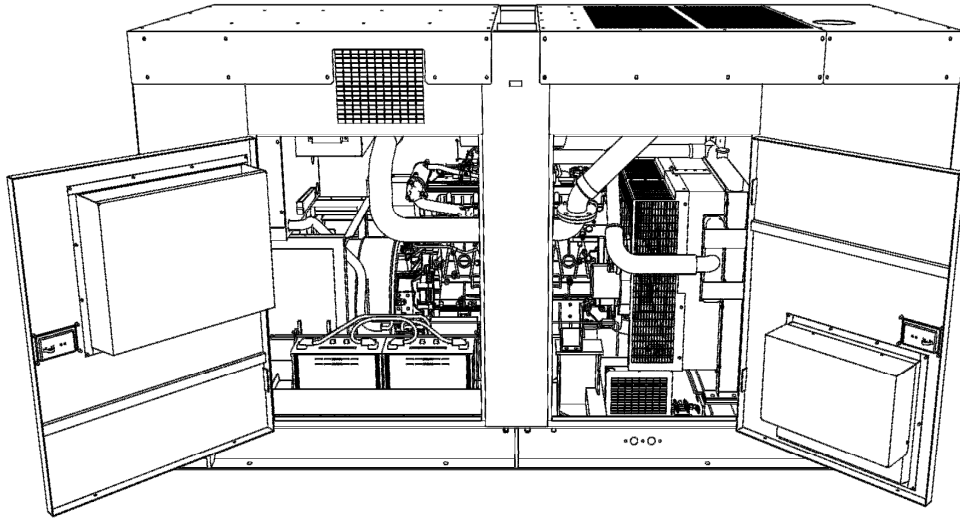
(4) Accessories

Owner's & Operator's Manual	1 copy
Engine Instruction Manual	1 copy
Engine Warranty Statement	1 copy
Starter Key	1 set (2 pcs.)

CHAPTER 4: APPEARANCE







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