



BUILT ARCTIC TOUGH

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Features & benefits

- Rugged, fuel-efficient Isuzu diesel engine
- 58.6 gallon fuel capacity
- Ultra Quiet Technology for class-leading sound level reduction
- Lightweight and compact to fit into tight spaces
- Connects easily and is simple to operate
- Two-way tank valve for easy connection with auxiliary tanks
- Voltage selector permits matching output to load
- Lockable switch protects against improper voltage change
- Provides both single and three-phase output
- Low oil pressure and high coolant temperature result in automatic shut-down
- Durable all-weather outer enclosure with powder coated exterior and stainless steel fasteners

Available mounting

- Skid mounted (standard)
- Trailer mounted

Options

• ESI-exclusive Re-Air attachment regulates airflow to maintain a constant temperature within the enclosure

Specifications	
Generator type	Revolving field brushless AC 3 Phase-120/240V Single Phase
Frequency	60 Hz
Output	Three-phase: 100 kVA / 80 kW Single-phase: 58 kW
Voltage	Three-phase: 208, 240, 480 V Single-phase: 120, 139, 240, 277 V
Current	Three-phase 240V: 241A
	Three-phase 480V: 120A
	Single-phase 120V: 242 A x 2 (ZigZag)
	Single-phase 240V: 242 A (ZigZag)









shindaiwa®) ((1000)

Latest clean engine.

quietest genset.



Alternator

Rated Output 100kVA

80kW

Voltage-Three phase 208,240,480 V

Voltage-Single phase 120,139,240 V

Frequency 60Hz

Rated speed 1,800 rpm

Star with Neutral Winding

Engine

Type Vertical Water-cooled 4-cycle Diesel

Model (Manufacturer) BT-4HK1(ISUZU)

Engine Emission EPA Tier3 (*1800min-1 only) **Continuous rated output** 114.7kW(153hp)/1800min-1

Rated speed,50/60Hz 1500/1800 rpm

5.193L **Displacement**

Combustion system Direct Injection, Turbo, Intercooler

Radiator, Water Cooling method

222 L Fuel tank capacity

Features

Shutdowns Lamp indication with shutdown

Warning Lamp indication

Dimensions (L)102-(W)49-(H)71) inch, 4,564 lbs.

(L*W*H mm , Dry weight kg)

Sound Level (No Load) 58dB(A) @ 7m Generating

.OOKVA

208,240,480V

3-phase

Sound Level (no load@7m)

dB(A)

Dimension(inch)

(L)102-(W)49-(H)71

Weight (lbs.)

4,564

Engine (Diesel)

PA Tier3

ECM device

Features

Single side maintenace

Easy access to radiator & muffler

Single side maintenance for engine

Safety door lock devices

Detachable plate for flushing skid inside



Removable side doors



Engine operating switch behind control panel

Easy to check engine condition by EMPS

Lockable voltage selector switch

Indication lamp

Terminal cover safety switch

Detachable plate for additional receptacles

Lockable terminal cover

Large size of output terminal lugs



All doors are lockable

Easy connection to auxiliary tanks

Easy access to internal fuel tank 4cm bung



Industrial Machinery Div.

35 SHIN-UJIGAMI KITA-HIROSHIMA-CHO YAMAGATA-GUN HIROSHIMA 731-1597 JAPAN Distributed by:

shindaiwa®

SPECIFICATIONS

DGK100D

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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) EPA Tier 3 Emission level

2. Design Conditions

(1) Installation Place: Outside

(2) Ambient Temperature: -15 to +40°C

(3) Humidity: Less than 85%

(4) Altitude: Less than 1000 meters 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) 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

				Unit	DGK100D	
Generating Method		_	Revolving Filed, Brushless AC			
	Generating Method		3-Phase-120/240V, 1 Phase			
	Ra	ted O	utput	kVA/kW	100/80	
	Trated Output		•	kW	kW 80	
	Rate		3-Phase	V	208, 240, 480	
	Voltag		1-Phase	V	120, 139, 240, 277	
	D - 4l	1 Ph	ase-120V		242 x 2 (Zigzag)	
Generator	Rated Curren t	1-Ph	ase-240V	Α	242 (Zigzag)	
		3-Ph	ase-240V		241	
) Jen	,	3-Ph	ase-480V		120	
	Rate	d Fred	quency	Hz	60/50 (± less than 0.25%)	
	Ra	ted S _l	peed	min ⁻¹	1800/1500	
	,	Windi	ng	-	Star with Neutral	
	Po	wer Fa	actor	%	80	
	Insu	lation	Class	-	Alternator: F	
	Exci	ting M	lethod	-	Self-Excitation (Brushless)	
	No. of Poles			-	4	
	Method			-	Vertical, Water-cooled 4-Cycle, Diesel Engine	
	N	lodel l	No.	-	ISUZU BI-4HK1	
	No. of Cylinder (bore x stroke			In./mm	4 (4.53 x 4.92/115 x 125)	
	Continuous Rated Output			kW{PS}	114.7{155.1}/1800 min ⁻¹	
	Rated Speed			min ⁻¹	1800/1500	
	Displacement		Liter	5,193		
	Combustion System		-	Direct Injection, Turbo-charged, Inter-cooler		
-	Cooling Method		-	Water-cooling radiator		
gine	Lubricating			-	Forced lubrication	
Eng	Starting			-	Electric	
		Fuel		-	AST No.2 Diesel	
	Fuel	Consu	ımption	Liter	23.4/h (@full load)	
		ricatir	•	-	SAE Class CD or higher	
			apacity	Liter	222	
			/olume	Liter	22	
	Coolant Volume		Liter	23		
	Starting Motor Capacity			V-kW	12V – 2.5kW	
	Alternator Capacity			V-A	12V – 110A	
	Battery Capacity			V-AH	12V – 150AH	
		x W		in/mm	102x49x71/2590x1240x1800	
				lbs./kg	4564/2070	
*Specif	Dry Weight ifications subject to change w					

^{*}Specifications subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator	
Voltage Meter	1 pc.
Amp. Meter	1 pc.
Freq. Meter	1 pc.
Volt Meter Selector	1 pc.
Amp. Meter Selector	1 pc.
Breaker:	
■Main Circuit Breaker	1 pc.
●Circuit Breaker (1-phase)	2 pcs.
●Circuit Breaker (3-phase)	3 pcs.
GFCI Receptacle (20A)	
Twist & Lock Type Receptacle (50A)	
(2) Others Idle Control Switch Starter Switch Monitor Lamp • Diagnosis • Air Filter • Boost • Battery Charge • Oil Pressure • Over Heat • Over Speed	1 pc.

2. Feature

(1) Feature

• Sound Level 58B(A) at 7m distance under no load

• Generating Performance Single Phase & Three Phase

• 2 Way Drive Control High/Auto

• Environmental EPA Emission 3 Compliance and Low Noise Level

Fuel Tank CapacityDry Weight222 Liters2070 kg

• Dimensions (LxWxH) 2590 x 1240 x 1800 mm

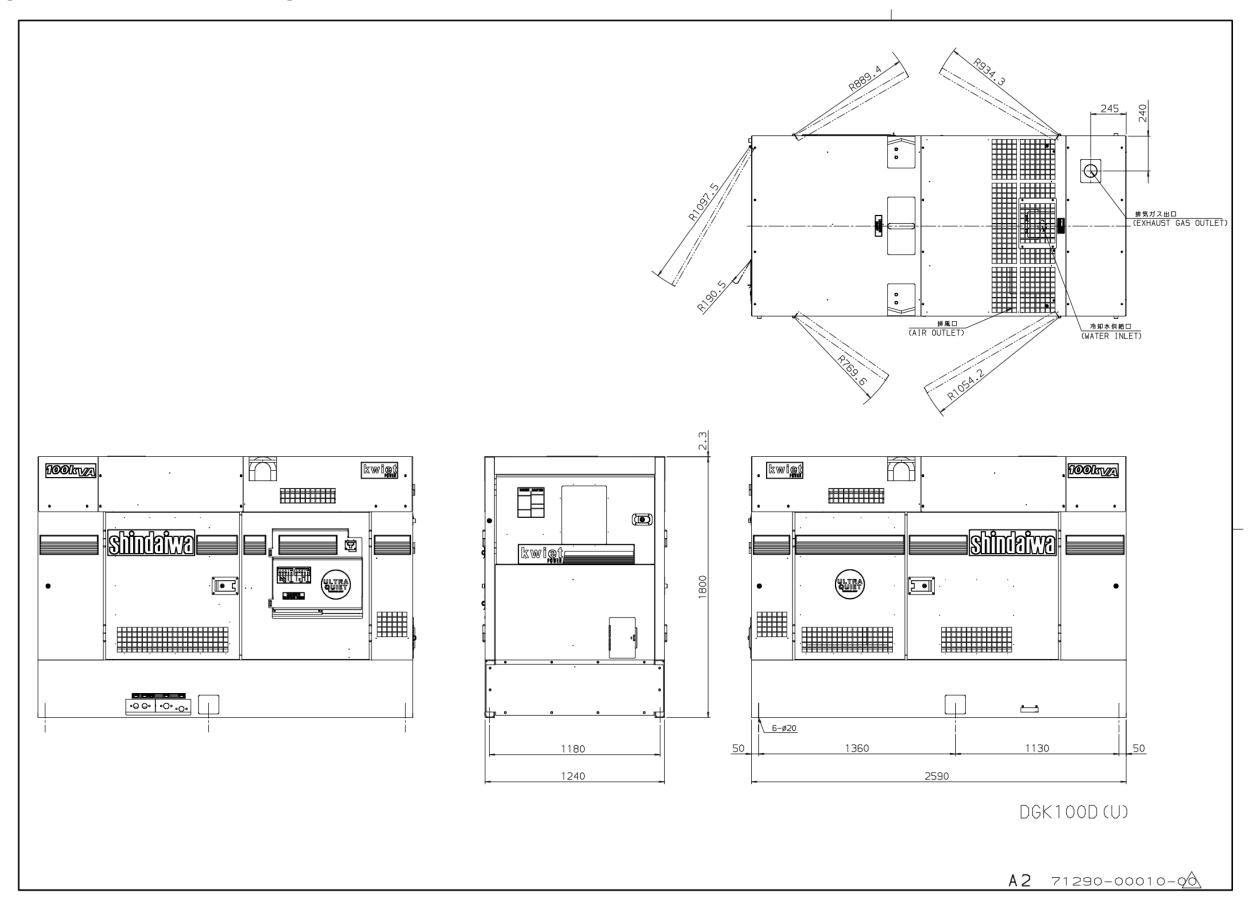
(2) Protection Device

Item	Set Value	Monitor Lamp	Engine Shut-Down
Diagnosis		\circ	-
Boost Temp.	85 ℃	0	-
Over Speed	2070min ⁻¹	0	-
Air Filter	when clogged	0	-
Over Heat	105℃	\circ	\circ
Battery Charge	-	0	
Oil Pressure	100kPa	0	0

(3)Accessories

Owner's & Operator's Manual	1 copy	
Engine Instruction Manual	1 сору	
Tool Set	1 set 3 pcs 1 pc 1 pc	
Starter Key	1 set	

CHAPTER 4: APPEARANCE



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