

	DIESEL	GENE	KAIUI	K JE
Diesel Generatin	a Set		ETDW7	00

MODEL	ETDW700
Standby Power (50Hz)	560KW / 700KVA
Prime Power (50Hz)	508KW / 635KVA

Standard Features

General Features:

- Engine (DOOSAN P222LE-S)
- Radiator 40^oC max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, double fuel filter, oil filter, coolant filter
- Main line circuit breaker
- Standard control panel
- Two12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual



Generator Ratings

Voltage	HZ	Phase	P.F (COS¢)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	918	560/700	508/635
415/240	50	3	0.8	973	560/700	508/635
400/230	50	3	0.8	1010	560/700	508/635
380/220	50	3	0.8	1063	560/700	508/635

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Etone Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: a, 15 months, counted on the day BAIFA sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one. Service and parts are available from Baifa Power or distributors in your location.



Diesel Generating Set

ETDW700

ENGINE DATA

Manufacturer / Model: DOOSAN P222LE-S, 4-cycle

Air Intake System: Turbo, Air/Air cooling

Fuel System: BOSCH P type fuel pump

Cylinder Arrangement: 12 in "V"

Displacement: 21.927L
Bore and Stroke: 128×142 (mm)

Compression Ratio: 14.6

Rated RPM: 1500rpm

Max. Standby Power at Rated RPM: 603KW/820HP

Governor Type: Electronic

Exhaust System

Exhaust Gas Flow: $93.9 \text{m}^3/\text{min}$ Exhaust Temperature: $598 ^{\circ}\text{C}$ Max Back Pressure: 6kPa

Air Intake System

Max Intake Restriction: 6.35kPa
Consumption: 31.8m³/min

Air Flow: 1286m³/min

Fuel System

 100%(Prime Power) Load:
 130.0 L/h

 75%(Prime Power) Load:
 99.8 L/h

 50%(Prime Power) Load:
 68.3 L/h

Oil System

Total Oil Capacity: 40L
Oil Consumption: ≤4g/kwh
Engine Oil Tank Capacity: 33L
Oil Pressure at Rated RPM: 345-483kPa

Cooling System

Total Coolant Capacity: 113L

Thermostat: $71-85^{\circ}$ C

Max Water Temperature: 103℃



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ALTERNATOR SPECIFICATION

GENERAL DATA

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

Number of Phase: 3

Connecting Type: 3 Phase and 4 Wires, "Y" type connecting

Number of Bearing: 1

Power Factor: 0.8
Protection Grade: IP23

Altitude: ≤1000m

Exciter Type: Brushless, self-exciting

Insulation Class, Temperature Rise: H/H

Telephone Influence Factor (TIF): <50

THF: <2%

Voltage Regulation, Steady State: ≤±1%

Alternator Capacity: 635KVA
Alternator Efficiencies: 95.1%

Air Cooling Flow: 1.035m³/s

GENERATING SET DATA

Voltage Regulation: ≥±5%

Voltage Regulation, Stead State: ≤±1%

Sudden Voltage Warp (100% Sudden Reduce): ≤+25%

Sudden Voltage Warp (Sudden Increase): ≤-20%

Voltage Stable Time (100% Sudden Reduce): ≤6S

Voltage Stable Time (Sudden Increase) ≤6S

Frequency Reduce: ≤5% Adjustable

Frequency Waving: ≤0.5%

Sudden Frequency Warp (100% Sudden Reduce): ≤+12%

Sudden Frequency Warp (Sudden Increase): ≤-10%

Frequency Recovery Time (100% Sudden Reduce): ≤5S

Frequency Recovery Time (Sudden Increase): ≤5S



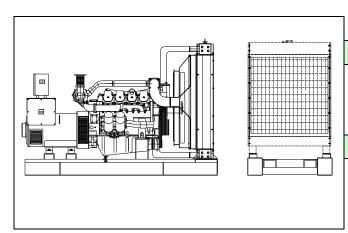
Diesel Generating Set

ETDW700

Options

Engine	Fuel System	Control System	
Heater 2KW & 4KW	Daily Fuel Tank	 Remote Control Panel 	
 Battery Charger 3.5A & 7A 	 Water Separator 	 Auto Transfer Switch (ATS) 	
	 Fuel Level Sensor 	 Paralleling System 	
Alternator	Others	Data	
Anti Condensation Heater	Rainproof Type	 Engine Parts Drawing List 	
• Permanent Magnet	 Soundproof Type 	 Spare Parts 	
Generator (PMG)			
 Drop CT (For Paralleling) 	 Trailer Type 		

Dimension & Weight



Standard Configuration (Open Type)

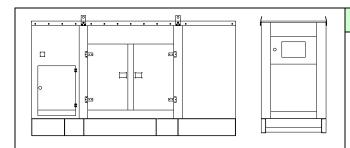
Overall Size: 3450 (mm) ×1390 (mm) ×1820 (mm)

Weight: 4200kg

With Base Fuel Tank

Overall Size: 3450 (mm) ×1390 (mm) ×1950 (mm)

Weight: 4250kg



Soundproof Type

Overall Size: $5030 (mm) \times 1660 (mm) \times 2250 (mm)$

Weight: 5700kg



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Control Panel Technical Specifications

Control Panel-SMARTGEN 6110/6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- a)Instruments:Analogue Volmeter, Hours Run Meter. Water pressure Meter.
- b) Controls:Emergency Stop Pushbutton, Volmeter Phase Selector Switch.
- c) Control module: Standard collocation is smartgen Auto start with AMF.



Main Features:

ΔAutomatic mains failure

ΔEngine control, Generator protection

ΔBuilt in alarms and warnings

ΔRemote Start operation available

ΔFuel pump control

ΔMains simulation

ΔBlock heater control

ΔField adjustable parameters

ΔFree MS-Windows Remote monitoring

ΔLED displays

ΔConfigurable analogue inputs

ΔI/O expansion capability

Smartgen®

Protection Circuits

WARNING

Battery charge failure

Low battery voltage

SHUT DOWNS

Fail to start

Emergency stop

Low oil pressure

High engine temperature

Over /Under speed

Under/over generator frequency

Failed to reach loading voltage

Electrical trip

Generator over current

Instruments

ENGINE

Engine speed

Oil pressure

Coolant temperature

Run time

Battery volts

TOR

Voltage (L-N)

Current (L1-L2-L3)

Frequency

Mains

Voltage (L-L, L-N)