

POWERED BY DOOSAN DIESEL GENERATOR SET

Diesel Generating Set ET		
MODEL	ETDW670-60	
Standby Power (60Hz)	600KW / 750KVA	
Prime Power (60Hz)	541KW / 676KVA	

Standard Features

General Features:

- Engine (DOOSAN P222LE)
- 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

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Voltage	HZ	Phase	P.F (COS¢)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
480/277	60	3	0.8	902	600/750	541/676
460/266	60	3	0.8	941	600/750	541/676
440/254	60	3	0.8	984	600/750	541/676
416/240	60	3	0.8	1040	600/750	541/676

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.



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ENGINE DATA

Manufacturer / Model:	DOOSAN P222LE, 4-cycle		
Air Intake System:	Turbo, Air/Air cooling		
Fuel System:	BOSCH P type fuel pump		
Cylinder Arrangement:	12 in "V"		
Displacement:	21.9L		
Bore and Stroke:	128×142 (mm)		
Compression Ratio:	15.0		
Rated RPM:	1800rpm		
Max. Standby Power at Rated RPM:	x. Standby Power at Rated RPM: 649KW/883HP		
Governor Type:	Electronic		
Exhaust System			
Exhaust Gas Flow:	137.0m ³ /min		
Exhaust Temperature:	Exhaust Temperature: 606°C		
Max Back Pressure:	6kPa		
Air Intake	e System		
Max Intake Restriction:	6.35kPa		
Consumption: 46.7m ³ /min			
Air Flow:	Flow: 1509m ³ /min		
Fuel System			
100%(Prime Power) Load:	153.9 L/h		
75%(Prime Power) Load: 112.0 L/h			
50%(Prime Power) Load:	75.9 L/h		
Oil System			
Total Oil Capacity:	45L		
Oil Consumption:			
Engine Oil Tank Capacity:	40L		
Cooling	System		
Total Coolant Capacity:	113L		
Thermostat:	71-85 ℃		
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:	713KVA
Alternator Efficiencies:	94.9%
Air Cooling Flow:	1.312m ³ /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

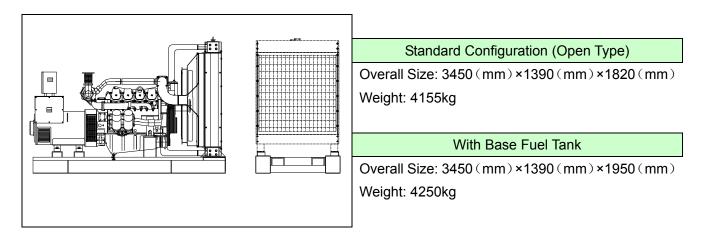
E TDW670-60

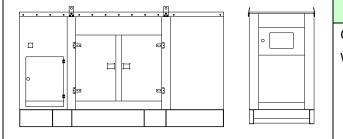
Options

Engine	Fuel System Control System		
 Heater 2KW & 4KW 	Daily Fuel Tank	Remote Control Panel	
• Battery Charger 3.5A & 7A	Water Separator Auto Transfer Switch		
	Fuel Level Sensor	 Paralleling System 	
Alternator	Others	Data	
• Anti Condensation Heater	Rainproof Type	Engine Parts Drawing List	
• D	t Soundproof Type 	 Spare Parts 	
 Permanent Magne 			

Drop CT (For Paralleling)
 Trailer Type

Dimension & Weight





Soundproof Type
Overall Size: 5030 (mm) ×1660 (mm) ×2250 (mm)
Weight: 5500kg

Smartgen[®]

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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:

 Δ Automatic mains failure Δ Engine control,Generator protection Δ Built in alarms and warnings Δ Remote Start operation available Δ Fuel pump control Δ Mains simulation Δ Block heater control Δ Field adjustable parameters Δ Free MS-Windows Remote monitoring Δ LED displays Δ Configurable analogue inputs Δ I/O expansion capability

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)