

Diesel Ge	enerating Set E TDW550
MODEL	ETDW550
Standby Power (50Hz)	440KW / 550KVA
Prime Power (50Hz)	400KW / 500KVA

General Features:

- Engine (DOOSAN P180LE)
- 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)
440/254	50	3	0.8	722	440/550	400/500
415/240	50	3	0.8	765	440/550	400/500
400/230	50	3	0.8	794	440/550	400/500
380/220	50	3	0.8	836	440/550	400/500

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqvISO8528) ; 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 P180LE, 4-cycle	
Air Intake System:	Turbo, Air/Air cooling	
Fuel System:	BOSCH P type fuel pump	
Cylinder Arrangement:	10 in "V"	
Displacement:	18.273L	
Bore and Stroke:	128×142 (mm)	
Compression Ratio:	15.0	
Rated RPM:	1500rpm	
Max. Standby Power at Rated RPM:	496KW/674HP	
Governor Type:	Electronic	
	t System	
Exhaust Gas Flow:	97.9m ³ /min	
Exhaust Temperature:	606 °C	
Max Back Pressure:	6kPa	
Air Intak	e System	
Max Intake Restriction:	6.35kPa	
Consumption:	31.6m ³ /min	
Air Flow:	1065m ³ /min	
Fuel S	System	
100%(Prime Power) Load:	111.6 L/h	
75%(Prime Power) Load:	81.3 L/h	
50%(Prime Power) Load:	54.8 L/h	
Oil S	ystem	
Total Oil Capacity:	Total Oil Capacity: 35L	
Oil Consumption:	≤4g/kwh	
Engine Oil Tank Capacity:	pacity: 28L	
Oil Pressure at Rated RPM:	345-483kPa	
Cooling	y System	
Total Coolant Capacity:	94L	
Thermostat:	79-94 °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:	500KVA
Alternator Efficiencies:	93.8%
Air Cooling Flow:	1.035m 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

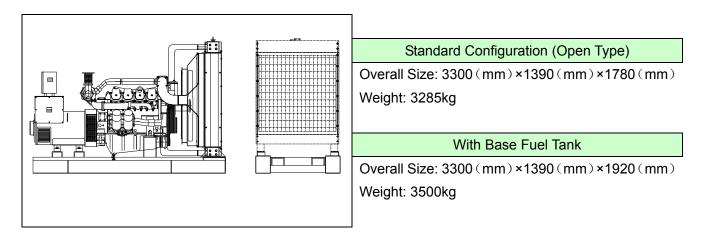
E TDW550

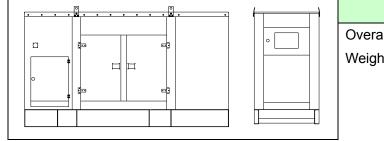
Options

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

Drop CT (For Paralleling)
 Trailer Type

Dimension & Weight





Soundproof Type
$Overall \ Size: 4630 \ (mm) \times 1660 \ (mm) \times 2250 \ (mm)$
Weight: 5300kg



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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.

Smartgen[®]

Main Features:

ΔAutomatic mains failureΔEngine control,Generator protectionΔBuilt in alarms and warningsΔRemote Start operation availableΔFuel pump controlΔMains simulationΔBlock heater controlΔField adjustable parametersΔFree MS-Windows Remote monitoringΔLED displaysΔConfigurable analogue inputsΔI/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)