

Diesel Ge	enerating Set ETDW350
MODEL	ETDW350
Standby Power (50Hz)	264KW / 330KVA
Prime Power (50Hz)	240KW / 300KVA

#### **Standard Features**

General Features:

- Engine (DOOSAN P126TI-II)
- Radiator 40<sup>o</sup>C 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

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G	enerator Rati	ngs						
				P.F	Standby	Standby	Prime	
	Voltage	HZ	Phase	г.г (COS¢)	Amps	Ratings	Ratings	
				(003¢)	Anips	(KW/KVA)	(KW/KVA)	
	440/254	50	3	0.8	433	264/330	240/300	
	415/240	50	3	0.8	459	264/330	240/300	
	400/230	50	3	0.8	476	264/330	240/300	
	380/220	50	D 3	0.8	501	264/330	240/300	

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** 

ETDW350

ENGINE DATA
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Manufacturer / Model:	DOOSAN P126TI-II, 4-cycle	
Air Intake System:	Turbo, Air/Air cooling	
Fuel System:	BOSCH P type fuel pump	
Cylinder Arrangement:	6 in line	
Displacement:	11.051L	
Bore and Stroke:	123×155 (mm)	
Compression Ratio:	17.0	
Rated RPM:	1500rpm	
Max. Standby Power at Rated RPM:	294KW/400HP	
Governor Type:	Electronic	
Exhaus	t System	
Exhaust Gas Flow:	47.4m <sup>3</sup> /min	
Exhaust Temperature:	<b>590</b> °C	
Max Back Pressure:	6kPa	
Air Intak	e System	
Max Intake Restriction:	6.35kPa	
Consumption:	20.1m <sup>3</sup> /min	
Air Flow:	607m <sup>3</sup> /min	
Fuel System		
100%(Prime Power) Load:	63.1 L/h	
75%(Prime Power) Load:	47 L/h	
50%(Prime Power) Load:	31.3 L/h	
Oil System		
Total Oil Capacity:	25L	
Oil Consumption:	≤4g/kwh	
Engine Oil Tank Capacity:	23L	
Oil Pressure at Rated RPM:	345-483kPa	
Cooling	J System	
Total Coolant Capacity:	60L	
Thermostat:	<b>71-85</b> ℃	
Max Water Temperature:	<b>103</b> ℃	



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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:	300KVA
Alternator Efficiencies:	93.0%
Air Cooling Flow:	0.8m <sup>3</sup> /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



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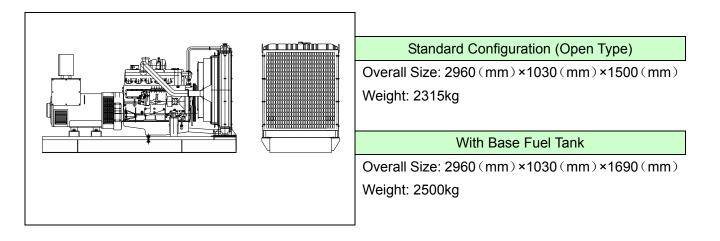
**ETDW350** 

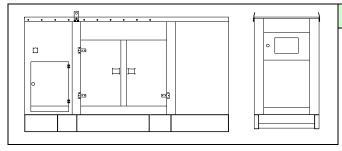
### Options

Engine	Fuel System	Control System
Heater 2KW & 4KW	Daily Fuel Tank	Remote Control Panel
• Battery Charger 3.5A &	<ul> <li>Water Separator</li> </ul>	• Auto Transfer Switch (ATS)
	Fuel Level Sensor	<ul> <li>Paralleling System</li> </ul>
Alternator	Others	Data
Anti Condensation Heat	Rainproof Type	Engine Parts Drawing List
• Permanent Ma	net <ul> <li>Soundproof Type</li> </ul>	Spare Parts
Generator (PMG)		

• Drop CT (For Paralleling) • Trailer Type

## **Dimension & Weight**





Soundproof Type
Overall Size: 4225 (mm) ×1460 (mm) ×2150 (mm)
Weight: 4000kg

Smartgen<sup>®</sup>

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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:

 $\Delta$ Automatic mains failure  $\Delta$ Engine control,Generator protection  $\Delta$ Built in alarms and warnings  $\Delta$ Remote Start operation available  $\Delta$ Fuel pump control  $\Delta$ Mains simulation  $\Delta$ Block heater control  $\Delta$ Field adjustable parameters  $\Delta$ Free MS-Windows Remote monitoring  $\Delta$ LED displays  $\Delta$ Configurable analogue inputs  $\Delta$ 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)