



ISO8528

This generator set has been designed to meet ISO 8528 regulation.

SZUTEST

This generator set is manufactured in facilities certified to ISO 9001.



This generator set is available with CE certification.

2000/14/EC

Enclosed product is tested according to EU noise legislation 2000/14/EC

3 Phase Ratings, 60 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kw	kVA	kw	Amp
480/277		270,00		253,00	380,00
380/220		265,00		240,00	456,00
208/120		270,00		250,00	867,00

Standby Rating (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

STANDARD SPECIFICATIONS

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant heater
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately (for open sets)
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Separator Filter
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set Parallel)
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weather protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- Supplied with oil and coolant - 30 °C
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch



● DIESEL ENGINE SPECIFICATIONS

Manufacturer		Doosan	تولید کننده		
Model		P126TI	مدل		
No. of Cylinders and Build		6 Cylinder, In Line	تعداد سیلندرها و نوع آرایش آنها		
Aspiration and Cooling		Turbo Charged and Change Air Cooled	سیستم تنفس و خنک کاری		
Maximum Standby Power		1800 rpm 298,00 kw [400,00HP]	توان Standby		
Total Displacement	L	11,050	جابه جایی کل		
Bore and Stroke	mm	123x155	قطر سیلندر و کورس پیستون		
Compression Ratio		17,1:1	نسبت تراکم		
Rated Speed (rpm)	rpm	1800	سرعت مجاز		
Governor		Electronic	گاورنر		
Oil Capacity	L	23,00	ظرفیت روغن		
Coolant Capacity	L	52,00	ظرفیت خنک کننده		
Intake Air Flow	m ³ /min.	27,68	جریان هوای مصرفی		
Exhaust Gas Flow	m ³ /min.	67,30	جریان گاز خروجی از اگزوز		
Exhaust Gas Temperature	° C	540,00	دمای گاز خروجی از اگزوز		
Start System		24 V d.c.	استارتر		
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
	L/h	70,30	52,30	36,20	

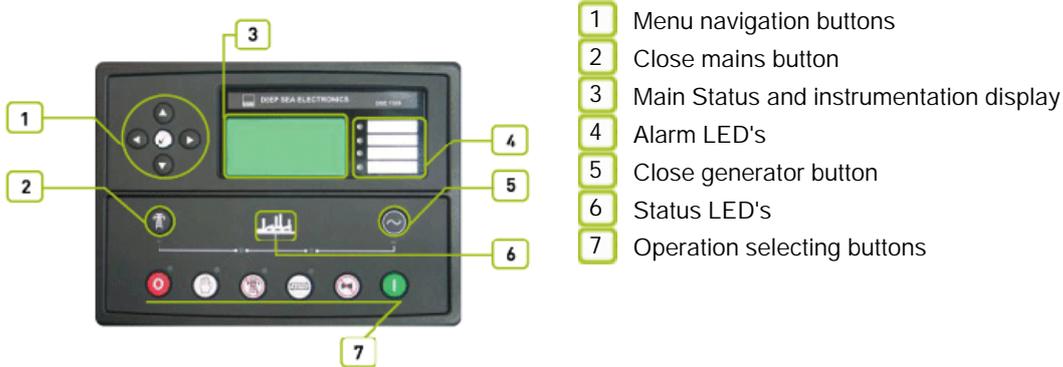
● ALTERNATOR SPECIFICATIONS

Make		Mecc Alte	تولید کننده
Model		ECO38 2LN/4	مدل
Frequency	Hz	60	فرکانس
Power	kw	288,00	توان
Design		Brushless, 4 poles	طراحی
Cos Phi		0,80	کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	A	433,00	جریان
Insulation Class		H	کلاس عایق بندی
Temperature		H	دما
Stator		2 / 3 steps	استاتور
Rotor		Single Bearing System, Flexible Disc	روتور
Excitation System		Electronic (AVR)	سیستم تحریک

● DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AD 270-6	2350,00	3017,00	1300,00	1588,00	470,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
MS 60	3025	3960	1356	2097	470

1 P 732 control system - Control System



2 Devices

DSE, model 7320 Auto Mains Failure control module
 Static battery charger
 Emergency stop push button and fuses for control circuits

3 Construction and Finish

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface
 Polyester composite powder topcoat forms high gloss and extremely durable finish
 Lockable hinged panel door provides for easy component access

4 Installation

Control panel is mounted generating set baseframe on robust steel stand or power module.
 Located at side of generating set with properly panel visibility.

5 Generating Set Control Unit

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines. The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch. The DSE 7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

Standard Specifications

Microprocessor controlled
 132 x 64 pixel LCD display makes information easy to read
 Front panel programming and also via PC software
 Soft touch membrane keypad and five key menu navigation
 Remote communications via RS232, RS485 and ethernet and SMS messaging
 Event logging (50) showing date and time
 Multiple date and time engine exercise mode and maintenance scheduler
 Engine block heater control.
 Controls: stop, manual, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.



Instruments

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- Engine maintenance due
- GENERATOR
- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earth current
- kW
- Pf
- kVAr
- kWh, kVAh, kVArh
- Phase sequence
- MAINS
- Voltage (L-L, L-N)
- Frequency

Protection Circuits

- WARNING
- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- Loss of speed signal
- PRE-ALARMS
- Low oil pressure
- High engine temperature
- Low engine temperature
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Low coolant level
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation
- ELECTRICAL TRIP
- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

Options

- High oil temperature shut down
- Low fuel level shut down
- Low fuel level alarm
- High fuel level alarm
- EXPANSION MODULES
- Editional LED module (2548)
- Expension relay module (2157)
- Expansion input module (2130)

Standards

- Electrical Safety / EMC compatibility
- BS EN 60950 Electrical business equipment
- BS EN 61000-6-2 EMC immunity standard
- BS EN 61000-6-4 EMC emission standard

Static Battery Charger

6UHVfmVUf[Yf]g'a Ubi ZUM FYX'k]h'gk]HV]b[!a cXY'UbX'GA 8'fVWbc`c[mUbX'ih\Ug'\][\ YZZ]bVWf
6UHVfmVUf[Yf'a cXY'gfci hdi hJ !=VUfUWVf]gh]W]g] YfmVWcgY'hc'gei UfY'&(\$) \Ug'Z `mici hdi hg\chVfVW]hdfchVW]cb UbX
ihVWb'VY i gYX'Ug'U'W'ffYbhgci fVW"
&(\$) VUf[Yf\Ug'\][\ YZZ]VYbVWz`cb["]Zz`ck 'Z]i'fY'fUfYz`][\hk Y][\hUbX`ck \YUhfUX]UfYX']b'UWVcfXUbW'k]h' "]bYUf
U'fYfbUf]j Yg"
H\Y VUf[Yf]g'Z]fYX'k]h' U'dfchVW]cb'X]cXY'UWVcggh'Y'ci hdi h'7\Uf[Y'Z]`ci hdi h]g'Uj U]UVY""7cbbYVWVUf[Y'Z]`fY'Um
Vt`] VYfk YYb dcg]h]j Y ci hdi hUbX'7: ci hdi h'
=bdh h'% *!&*(J"
Ci hdi h'&+z'J ') 5'cf% z J ') 5"

by awarding