

PROGEN
Generator

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PG S410TO

GENERATOR SET

PRODUCT CATALOGUE

ADDRESS: İVEDİK OSB MAHALLESİ 1455 CADDE NO: 106 YENİMAHALLE ANKARA, TURKEY

GROUP FEATURES	UNIT	PRIME	STAND BY
Power	kVA	373	410
Power	kW	298	328
Current	A	539	592
Standard Voltage	V	230/400	
Revolution Per Minute	r.p.m	1500	
Rated at Power Factor	Q	0.8	

STANDBY POWER : Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

PRIME POWER : It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours of operation.



STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
- Protection system on manual run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- 4 Poles, synchron type, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL EQUIPMENTS

- Sound proof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
- Automatic / Manual
- Analog indicators
- 1 Phase – 3 Phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

DIMENSIONS AND WEIGHT



Length(L) : 3400 mm

Height (H): 1900 mm

Width (W): 1300 mm

Wight (Kg): 2652 kg

Fuel Tank Capacity (L): 380 L

DIMENSIONS AND WEIGHT



Length (L): 4000 mm

Height(H):2200 mm

Width (W): 1300 mm

Wight (Kg): 3112 kg

Fuel Tank Capacity (L): 380 L

ENGINE SPECIFICATIONS

Brand		SHANGAI PRE.	Electrical system	VDC	24
Model		SC13H380	Mineral oil capacity	L	26
Engine Power Stand by	(kWh /hp)	330 / 442	Coolant capacity	L	46
Revolution Per Minute	(r.p.m)	1500	Fuel tank capacity	L	295
Total Displacement	(L)	13,74	Max. exhaust gas temperature	°C	600
Cylinders Orientation		6 SINGLE ROW	Max. exhaust gas flow	M3/h	2442
Bore * Stroke	(mm xmm)	135 X 160	Max. back pressure	kPa	7
Compression Orientation		17:1	Cooling fan flow	M3/min	448
Governor Type		Mechanical	Fuel consumption 50%	L/h	29,6
Aspiration System		Turbocharger + Intercooler	Fuel consumption 75%	L/h	44,4
Spray Pattern		Mechanical	Fuel consumption 100%	L/h	59,3
Cooling		Water Cooled			

· Replaceable wet cylinder liners

· Dry type replaceable air filter

· Radiator that can cool up to 50 °C

ALTERNATOR FEATURES

Output Voltage	V	230 /400	Overload Runtime		1 s- %110
Frequency	Hz	50	Power Factor		0,8
Permanent Voltage Reg.	±	%1	Total Harmonic Distortion Ratio	Cos Q	< %1
Short Circuit Current		%300 (10 dk.)	Connection style		STAR
Insulation		H	Number of Poles		4
Protection Class		IP 23	Number of Beds		ONLY
Yield	%	88			

· 4-pole, self-excited and cooled, brushless synchronous alternator · Electronic type automatic voltage regulator (YES)

CONTROL PANEL FEATURES

- Diesel and gas generator support
- 400 Hz generator support
- 400x measurement values
- All parameters can be changed from the front panel
- 3-level program password
- 128x64 pixel graphic LCD
- Language installation
- Current-voltage waveform
- Current-voltage harmonic analysis
- Synchroscope and sync relay
- 16 Amp / 250V ŞK / JK outputs
- 8 programmable digital inputs
- Entries can be increased to 40
- 4 programmable analog inputs
- CANBUS-J1939 & MPU input
- 3 programmed service alarms
- Multiple automatic test report
- weekly work schedule
- Dual generator support, equal aging
- Fine speed tuning (some ECUs)
- Automatic fuel pump control
- Protections cancellation feature
- Over power protection
- Reverse power protection
- Overcurrent IDMT protection
- Load shedding dummy load
- Multiple load shedding programs
- Current unbalance protection
- Voltage imbalance protection
- Fuel filling and fuel run alarms
- Battery powered real time clock
- Idle speed control
- Battery charging work
- Multiple nominal requirement definitions
- Contactor+motorized switch driving
- 4 quarter energy meters
- Grid energy meters
- Fuel meter
- Fuel consumption meter
- Modem & Ethernet pages
- Parameter setting via USB, RS-485 Ethernet and GPRS
- Possibility of control via SMS
- Mobile generator support
- Automatic GSM geolocation
- GPS connection (USB and RS232)
- Dynamic ONS support
- Downloading software via USB
- IP65 protection with standard gasket
- Battle mode support