

BY-WP22S



*Imágenes como ejemplo ilustrativo, puede variar según modelo.

Especificaciones Generales

		PRP	ESP
Power Rating	kVA	20	22
Power Rating	kWe	20	22
Frequency / Phase / Power factor	Cosφ	60Hz /1P / PF=1.0	
Standard Voltage	V	120 / 240 V	
Generator Current	A	83.3	
Auto Transfer Switch Current	A	100	

Dimensiones, peso y capacidad del tanque de combustible

Open type: LxWxH (mm), Dry Weight: (kg), Fuel tank (L)	TBA	kg	L
Silent type: LxWxH (mm), Dry Weight: (kg), Fuel tank (L)	1800x850x1180	710kg	70

NOTE : Weights and dimensions based on standard products. According to 2000/14/CE , sound data is provided at 7m for 75% prime power. For actual installation, please contact the manufacturer.

Prime Rated Power (PRP):

According to ISO 8528-1:2018, prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24hrs of operation shall not exceed 70% of the PRP. 10% overload permissible for 1 hour in every 12 hours.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency Standby Power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200hrs of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24hrs of operation shall not exceed 70% of the ESP. There isn't any overload capability above stand by power rate.

Standard Reference Conditions:

Quality Standards:ISO9001:2000, ISO14000, ISO3046
ISO8528, BS4999

BS5514, AS1359, ICE34
CE Compliance

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		PRP	ESP
Engine Brand		WEICHAİ	
Engine Model		WP2.3D30E201	
Number of cylinders / Valves		4	
Cylinder arrangement		4 stroke, L-Type, Diesel	
Cooling System		Water-cooled	
Aspiration Type		Naturally aspirated	
Compression Ratio		17:5	
Bore x Stroke	mm	89	92
Displacement	L	2.3	
Engine Speed	r.p.m	1800	
Gross Engine Output	kWm	27	30
Speed Governor	Type	Electronic	
Electrical System Voltage	V	12 volt DC	
Coolant Capacity (engine only)	L	5	
Lubrication System Capacity	L	8	
Flywheel housing	S.A.E.No.	SAE 4	
Flywheel	S.A.E.No.	SAE 7.5	
Fuel Consumption	100% Load (L/hr)	7.22	8.38
Fuel Consumption	75% Load (L/hr)	5.29	
Fuel Consumption	50% Load (L/hr)	3.74	
Fuel Consumption	25% Load (L/hr)	2.37	

ENGINE

Industrial 4 stroke cooled diesel engine complete with air, fuel and oil filters, electric starting and charging equipment, engine protection against low water level.

COOLING

Radiator and colling fan complete with protection guards, designed to cool engine at specified output in air temperatures upto 50 °C, radiators suitable for higher temperatures are available. Low water level protection fitted as standard.

ELECTRICAL SYSTEM

12/24V upto axial type starter motor, battery charging alternator, high capacity maintenance-free battery and battery tray mounted on the generator base frame, and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM

Heavy duty industrial exhaust silencer with flexible piping.

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Generador **DIÉSEL** Powered by Weichai

Especificaciones del alternador

Alternator Brand	COPY STAMFORD
Alternator Model	184E
Excitation System	Self-excited, Brushless
AVR Type	Electronic AVR
Voltage Regulation	± 1%
Number of Poles	4
Connection Type	Y (series star) connection
Insulation Class	Class H
Winding pitch	2/3
Coupling System	Flexible disc
Coating Type	Standard (Vacuum impregnation)
Underspeed Protection	Standard
Ingress Protection Rating	IP23
Wave Form NEMA=TIF	<50

Auto Mains Failure Control Panel

Standard controller model: DEEPSEA DSE6120 MKIII

Δ Control with Auto Mains Failure (AMF) module

Δ Static battery charger

Δ Emergency stop push button



a) Generating set control module features:

Δ The module is used to monitor main supply and starts and stops of a standby generating set

Δ Micro-processor based design

Δ Automatic control of main and generator contactors

Δ Monitors engine performance

Δ Front panel configuration of timers and alarm trip points

Δ CAN and magnetic pick-up versions (specify on ordering)

Δ Easy push button control

Δ STOP/RESET - MANUAL - AUTO - TEST - START

c) Alarms

Δ Over and Under Speed

Δ Low and High Battery Volt.

Δ Start and Stop Failure

Δ Charge failure

Δ Over Current

Δ Under / Over Generator Voltage

Δ Low Oil Pressure

Δ Emergency stop

Δ High engine temperature

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Generador **DIÉSEL** Powered by Weichai

Especificaciones de Sistema de Control

b) Metering via LED display

- Δ Generator Volts (L-L / L-N)
- Δ Engine oil pressure (PSI-Bar)
- Δ Generator Ampere (L1, L2, L3)
- Δ Engine temperature (°C & °F)
- Δ Generator Frequency (Hz)
- Δ Engine run hours
- Δ Mains Volts (Ph-Ph / Ph-N)

- Generator kVA
- Generator kW
- Generator Cos (φ)

b) LED indications

- Δ Mains available
- Δ Generator available
- Δ Mains on load
- Δ Generator on load

Regulación de voltaje

- Δ Voltage regulation maintained within ±0.5%
- Δ Between 0.8 and 1.0 lagging and unity

- Δ From no load to full load
- Δ At speed droop variation upto 4.5%

Frecuencia ajustable

- Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Ondulación de frecuencia

- Δ Load from 0-100%, frequency undulation within 0.25%
- Δ No load wire volts max undulation ration\ within 1.8%
- Δ Three Phrase balanced load in the order of 5%

- Δ Effect factor of Telecom
- Δ TIF better than 50
- Δ THF to IEC60034 Part 40 better than 2%

Construcción robusta resistente a la corrosión

- Δ Black finish stainless stell lock and hinges
- Δ Body made from steelcomponents treated with polyester powder coating

- Δ Two large doors on each side
- Δ Lube oil and cooling water drains pipes to exterior of the enclosure

Seguridad y protección

- Δ Control panel viewing window in a lockable access door
- Δ Emergency stop buttom mounted on enclosure interior

- Δ Cooling fan and battery charging alternator fully guarded
- Δ Exhaust silencing system totally enclosed for operator safely

Características adicionales

Engine

- Δ Water Jacket Preheater
- Δ Oil Preheater
- Δ Engine Oil Feeding and Drain Pump
- Δ Heavy air filtration
- Δ Residential Silencer
- Δ Remote radiator, heat exchanger

Alternator

- Δ Winding Temperatruue Measuring Instrument
- Δ Alternator Preheater
- Δ PMG / AREP excitation system
- Δ Anti-Damp and Anti-Corrosion Treatment
- Δ Anti-Condensation Heater
- Δ IP44 protection class

Generating Set

- Δ Auto Transfter Switch
- Δ Trailer type Gensets
- Δ Super Silent Type
- Δ Customized design
- Δ Bulk storage Fuel tank
- Δ External Fuel tank

Fuel System

- Δ Low Fuel Level Alarm Shutdown
- Δ Automatic Fuel Feeding System

Control System

- Δ Synchronizing panel, remote control panel
- Δ RS485, RS232, 4G & GPS wireless
- Δ Additional digital/analog input/output
- Δ Monitoring software, mobile APP
- Δ ATS, output, combining, distribution cabinet
- Δ Ethernet communication card, etc.