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POWERED BY

The largest diesel engine manufacturer, with a series of different power outputs.


CONTROL PANEL

ALTERNATOR

Prime Power

30kVA/24kW

Stanby Power

33kVA/26.4kW

Phase/Voltage

Three/230/400V

Rated Current

43.2A

Hz/rpm

50/1500

DIESEL GENERATOR SET

Engine Make/Model	Yuchai – YCV2.5T45-G20
Alternator Make/Model	Senci – SC-184GS
Control Panel	Deepsea – DSE6120MK III
Starting Method	Electric Start
Operating Temperature	-5°C to +40°C
Noise Level (@ 7m)	≤85dB(A)
Power Factor	0.8
Waveform Distortion Rate	T.H.D ≤5 %
Fuel tank capacity (L)	84L
Water Resistance Level	IP23

ENGINE SPECIFICATIONS

Make / Model	Yuchai – YCV2.5T45-G20
Main Power	30kW @ 1500rpm
Displacement(L)	2.5L
Cooling Method	50°C Aluminum Water Tank
Speed Control Mode	Electronic Speed Control
Intake Method	Turbocharging
Starting Method	Electric Start
Bore / Stroke	89mm × 100mm
Flywheel Housing Interface	SAE4# / 7.5#
Emission Standard	N/A
Water Temperature Sensor	Resistive type
Oil Pressure sensor type	Resistive type
Diesel prefilter type	Power is self-contained
Diesel filter type	Power is self-contained

ALTERNATOR SPECIFICATIONS

Make / Model	Senci – SC-184GS
Rated Power / Speed	24kW / 1500rpm
Insulation Class	H Class
Protection Level	IP22
No.of Phases	Three-phase
T.H.D	T.H.D ≤5 %
Rated Voltage	230/400V
Power Factor	0.8
Voltage Regulator	SX460
Frequency	50Hz
Excitation Mode	Brushless Excitation

Prime Power - Unlimited hours usage with an average load factor of 80 % of the published Prime power over each 24 hours period. A 10 % overload is available for 1 hour in every 12 hours operation.

Standby Power - Limited to 500 hours annual usage with an average load factor of 80 % of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power.

DIMENSION

Lenght(mm)	Widht(mm)	Height(mm)	Weight(kg)
1620	920	1220	740

ELECTRICAL SYSTEM

Controller Model	DSE6120MK III (Deepsea)
Power Switch	NP2-BD21
Emergency Stop Button	NP2-BS545
Floating Power Supply	DC12V / BCC6A MK2- 12V (Mebay)
Output Circuit Breaker	NXB-63/4P/50A (Chint)
Current Transformer	BH-0.66/30I/50:5/1 grades /Single-turn

POWER SYSTEM

Battery Specifications	1 x 12 V / 80Ah
Battery Brand	Powsea
Battery Switch Model	JK451
Battery Switch Brand	ZL

COOLING SYSTEM

Status	Power is self-contained
Manufacturer	Weichuang

MUFFLER SYSTEM

Specification	Box configuration
Material	Iron Based
Rain Cap	No
Surface	Black matte high-temperature resistant paint

Note: Specifications are subject to change without prior notice due to ongoing research and product development

Ratings Definitions	Operating Conditions
COP	<ol style="list-style-type: none"> 1. Unlimited using time per year. 2. Continuous power is the maximum power available at a constant load factor. 3. No overload capability is allowed.
PRP	<ol style="list-style-type: none"> 1. Unlimited using time per year; 2. The average load rate is no more than 70 % over 24 hours 3. Overloading 10 % for 1h within 12 hours of operation is allowed
ESP	<ol style="list-style-type: none"> 1. The annual operating time shall not exceed 200h. 2. The average load rate shall not exceed 70 % over 24hr operation cycle. 3. No overload capability is allowed 4. The acceleration of starting of diesel engines are carried out in accordance with Q/WCGI36.13, and there's no engine process. From acceleration of starting to calibration speed shall be completed within 10s. Natural aspirated diesel engine, when the environment temperature is below 5°C, need to increase preheat facilities to ensure that diesel engine water temperature above 30°C. When environment temperature over 5°C, no preheating facilities are required. Supercharged diesel engine, when the environment temperature is below 10°C, need to increase preheat facilities to ensure that diesel engine water temperature above 30°C. When environment temperature over 10°C, no preheating facilities are required.
LTP	<ol style="list-style-type: none"> 1. No ability to overload. 2. The annual operating time shall not exceed 500h while supplying a variable electrical load.
DCP	<ol style="list-style-type: none"> 1. It has %10 overload capacity. 2. Annual run time is unlimited. 3. Working under variable or continuous load of less than 100 %. 4. The power load shall not exceed %70 of the calibration power when the device is running continuously.
Descriptions	<ol style="list-style-type: none"> 1. All ratings are based on operating conditions under ISO 8528- , ISO 3046, DIN6271. Performance tolerance of ±5 %. 2. Test conditions : 100 kPa, 25°C air inlet temperature, relative humidity of 30 %, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details. 3. Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump, without battery charging alternator, fan and optional equipment.

