

# SC33W990D2

#### **OUTPOON** POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation	kW	Ps
1500	Prime Power	660	897
	Standby Power	726	987

- -. The engine performance is as per GB/T2820.
- -. Ratings are based on GB/T1147.1.
- ---Prime power is available for an unlimited number of hours per year in a variable load application. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.
- ---Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year. The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

#### **© SPECIFICATIONS**

#### **© FUEL CONSUMPTION**

O Engine Model	SC33W990D2	O Power	lit/hr
O Engine Type	line, 4 strokes, water-cooled	25%	43.2
	Turbo charged	50%	73.8
	air-to-air intercooled	75%	104.4
	an-to-an intercooled	7370	104.4
O Combustion type	Direct injection	100%	142.2
O Cylinder Type	Wet liner	110%	158.4
O Number of cylinders	6		
O Bore × stroke	180(7.09) × 215(8.47) mm(in.)		
O Displacement	32.8(2001) lit.(in3)		
O Compression ratio	15:1		
O Firing order	1-5-3-6-2-4	© FUEL SYSTEM	
O Injection timing	22°BTDC	O Injection pump	Longkou in-line "P11" type
O Dry weight	Approx. 3400kg (7495.7 lb)	O Governor	Electric type
O Dimension	2307×1371×1983 mm	O Feed pump	Mechanical type
$(L\times W\times H)$	(90.9×54.0×78.1 in.)	O Injection nozzle	Multi hole type
O Rotation	Counter clockwise viewed from	O Opening pressure	290kg/cm2 (4125 psi)
	Flywheel	O Fuel filter	Full flow, cartridge type

<ul><li> Fly wheel housing</li><li> Fly wheel</li></ul>	SAE NO.18	O Used fuel	Diesel fuel oil
<b>™ MECHANISM</b>		<ul> <li>LUBRICATION SYSTEM</li> </ul>	
О Туре	Over head valve	O Lub. Method	Fully forced pressure feed type
O Number of valve	Intake 1, exhaust 1 per cylinder	O Oil pump	Gear type driven by crankshaft
O Valve lashes at cold	Intake 0.4mm (0.0158 in.)	O Oil filter	Full flow, cartridge type
	Exhaust 0.45mm (0.0177 in.)	O Oil pan capacity	High level 75 L ( 19.8 gal.) Low level 50 L ( 13.2 gal.)
VALVE TIMING	Opening Close	O Angularity limit	Front down 25 deg. Front up 35 deg.
O Intake valve	58° BTDC 48° ABDC		Side to side 35 deg.
O Exhaust valve	54° BBDC 48° ATDC	O Lub. Oil	Refer to Operation Manual
<b>◎ COOLING SYSTEM</b>		© ENGINEERING DATA	
O Cooling method	Fresh water forced circulation	O Water flow	1150L/min @1,500 rpm
O Water capacity	56L ( 14.78 gal.)	O Heat rejection to coolant	33.8kcal/sec @1,500 rpm
(engine only)		O Heat rejection to CAC	20.7kcal/sec @1,500 rpm
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	O Air flow	62.9m3/min @1,500 rpm
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	152.6m3/min @1,500 rpm
O Water pump Capacity	1150L(303.6gal.)/min	O Exhaust gas temp.	680 °C @1,500 rpm
	at 1,500 rpm (engine)	O Max. permissible	
O Thermostat	Wax-pellet type Opening temp. 77°C Full open temp. 90°C	restrictions Intake system	3 kPa initial 6 kPa final
O Cooling fan	Blower type,iron	Exhaust system	6 kPa max.
	1371 mm diameter, 8 blades	O Max. permissible altitude	2,000 m
O Cooling air flow	$20.82 \text{ m}^3/\text{s}$	O Fan power	25 kW

## © ELECTRICAL SYSTEM

### **◆** CONVERSION TABLE

O Charging generator 28V×55A

 $in. = mm \times 0.0394$ 

 $lb/ft = N.m \times 0.737$ 

O Voltage regulator

Built-in type IC regulator

 $PS = kW \times 1.3596$ 

U.S. gal = lit.  $\times$  0.264

O Starting motor

24V×11kW

 $psi = kg/cm2 \times 14.2233$ 

kW = 0.2388 kcal/s

O Battery Voltage

24V

 $in^3 = lit. \times 61.02$ 

 $1b/PS.h = g/kW.h \times 0.00162$ 

O Battery Capacity

200 AH

 $hp = PS \times 0.98635$ 

 $cfm = m3/min \times 35.336$ 

 $lb = kg \times 2.20462$ 



