

# SC13G355D2

#### **OUTPOON** POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation	kW	Ps
1500	Prime Power	236	321
	Standby Power	260	355

- -. 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	SC13G355D2	O Power	lit/hr
O Engine Type	In-line,4 strokes, water-cooled	25%	17.0
	Turbo charged	50%	30.6
	air-to-air intercooled	75%	44.8
O Combustion type	Direct injection	100%	58.6
O Cylinder Type	Wet liner	110%	64.7
O Number of cylinders	6		
O Bore × stroke	135(5.32) ×150(5.9) mm(in.)		
O Displacement	12,88(786) lit.(in3)		
O Compression ratio	15.55: 1		
O Firing order	1-5-3-6-2-4	© FUEL SYSTEM	
O Injection timing	14.5°BTDC	O Injection pump	Yijie in-line "P" type
O Dry weight	Approx.1296kg (2857.2 lb)	O Governor	Electric type
O Dimension	1704×1063×1540 mm	O Feed pump	Mechanical type
$(L\times W\times H)$	(67.1×41.9×60.7 in.)	O Injection nozzle	Multi hole type
O Rotation	Counter clockwise viewed from	O Opening pressure	240kg/cm2 (3414 psi)
	Flywheel	O Fuel filter	Full flow, cartridge type

O Fly wheel housing	SAE NO.1	O Used fuel	Diesel fuel oil	
• Fly wheel	SAE NO.14			
• MECHANISM		<ul> <li>LUBRICATION SYSTI</li> </ul>	EM	
O Type	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 0.325mm (0.0128 in.)	O Oil filter	Full flow, cartridge type	
	Exhaust 0.375mm (0.0148 in.)	Oil pan capacity	High level 41 liters (10.82 gal.) Low level 33 liters (8.71 gal.)	
• VALVE TIMING		O Angularity limit	Front down 25 deg.	
	Opening Close		Front up 35 deg.	
O Intake valve	20 deg. BTDC 48 deg. ABDC		Side to side 35 deg.	
O Exhaust valve	48 deg. BBDC 20 deg. ATDC	O Lub. Oil	Refer to Operation Manual	
COOLING SYSTEM	<b>◎ COOLING SYSTEM</b>		© ENGINEERING DATA	
O Cooling method	Fresh water forced circulation	O Water flow	450 liters/min @1,500 rpm	
O Water capacity	25.5 liters ( 6.73 gal.)	O Heat rejection to coolant	28.5 kcal/sec @1,500 rpm	
(engine only)		O Heat rejection to CAC	16.9kcal/sec @1,500 rpm	
O Pressure system	Max. 0.5 kg/cm2 ( 7.11 psi)	O Air flow	16.3 m3/min @1,500 rpm	
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	39.6m3/min @1,500 rpm	
O Water pump Capacity	450 liters ( 118.8 gal.)/min	O Exhaust gas temp.	600 °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.	
	920 mm diameter, 6 blades	O Max. permissible altitude	2,000 m	
O Cooling air flow	$7.46 \text{ m}^3/\text{s}$	O Fan power	10 kW	

## © ELECTRICAL SYSTEM

### **◆ CONVERSION TABLE**

O Charging generator 28V×55A

 $\times 55A$  in. = mm  $\times 0.0394$ 

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

O Voltage regulator

Built-in type IC regulator

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

O Starting motor 24V×7.5kW

 $psi = kg/cm2 \times 14.2233$ 

 $PS = kW \times 1.3596$ 

kW = 0.2388 kcal/s

O Battery Voltage 24V

 $in^3 = lit. \times 61.02$ 

 $lb/PS.h = g/kW.h \times 0.00162$ 

O Battery Capacity 180 AH

 $hp = PS \times 0.98635$ 

 $cfm = m3/min \times 35.336$ 

$$lb = kg \times 2.20462$$



