SC27G755D2





OUTPOON POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation		Ps
1500	Prime Power	505	687
	Standby Power	555	755

- -. 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	SC27G755D2	O Power	lit/hr
O Engine Type	V-type,4 strokes, water-cooled	25%	37.8
	Turbo charged	50%	66.3
	air-to-air intercooled	75%	95.3
O Combustion type	Direct injection	100%	126.0
	Direct injection	10070	120.0
O Cylinder Type	Wet liner	110%	139.0
O Number of cylinders	12		
O Bore × stroke	135(5.32) × 155(6.1) mm(in.)		
O Displacement	26.6(1623) lit.(in3)		
O Compression ratio	16:1		
O Firing order	1-12-5-8-3-10-6-7-2-11-4-9	© FUEL SYSTEM	
O Injection timing	11.5°BTDC	O Injection pump	Yijie in-line "P" type
O Dry weight	Approx. 2080kg (4585 lb)	O Governor	Electric type
O Dimension	1930×1686×1872mm	O Feed pump	Mechanical type
$(L\times W\times H)$	(76×66.4×75.8 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
 Compression ratio Firing order Injection timing Dry weight Dimension (L×W×H) 	16:1 1-12-5-8-3-10-6-7-2-11-4-9 11.5°BTDC Approx. 2080kg (4585 lb) 1930×1686×1872mm (76×66.4×75.8 in.) Counter clockwise viewed from	 O Injection pump O Governor O Feed pump O Injection nozzle O Opening pressure 	Electric type Mechanical type Multi hole type 240kg/cm2 (3414 psi)

Fly wheel housingFly wheel	SAE NO.18	O Used fuel	Diesel fuel oil	
∞ MECHANISM		 LUBRICATION SYSTI 	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.)	O Oil pan capacity	High level 65 liters (17.16 gal.) Low level 55 liters (14.52 gal.)	
VALVE TIMING	Opening Close	O Angularity limit	Front down 25 deg. 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	◎ COOLING SYSTEM		© ENGINEERING DATA	
O Cooling method	Fresh water forced circulation	O Water flow	740 liters/min @1,500 rpm	
O Water capacity	48 liters (12.7 gal.)	O Heat rejection to coolant	68 kcal/sec @1,500 rpm	
(engine only)		O Heat rejection to CAC	32 kcal/sec @1,500 rpm	
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	O Air flow	36 m3/min @1,500 rpm	
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	91.8 m3/min @1,500 rpm	
O Water pump Capacity	740 liters (195.36 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.	
	1220 mm diameter, 6 blades	O Max. permissible altitude	2,000 m	
O Cooling air flow	$15.92 \text{ m}^3/\text{s}$	O Fan power	25 kW	

© ELECTRICAL SYSTEM

O Charging generator 28V×55A

O Voltage regulator Built-in type IC regulator

O Starting motor $24V \times 11kW$

O Battery Voltage 24V

O Battery Capacity 200 AH

CONVERSION TABLE

 $in. = mm \times 0.0394$

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

 $PS = kW \times 1.3596$ U.S. gal = lit. \times 0.264

 $psi = kg/cm2 \times 14.2233$ kW = 0.2388 kcal/s

 $in^3 = lit. \times 61.02$ $lb/PS.h = g/kW.h \times 0.00162$

 $hp = PS \times 0.98635$ $cfm = m3/min \times 35.336$

 $lb = kg \times 2.20462$



