

ISUZU DIESEL A-6BG1T ENGINE SPECIFICATIONS

MAR., '97 2/5

ENGINE MODEL	A-6BG1TQV
CUSTOMER	
APPLICATION	GENERATOR SET
TYPE	FOUR CYCLE, WATER COOLED, OVERHEAD VALVE, VERTICAL IN-LINE, DIRECT INJECTION TYPE
CYL. NO. -BORE × STROKE	6-105 × 125 mm
DISPLACEMENT	6,494 cm <sup>3</sup>
COMPRESSION RATIO	17.5 to 1
FIRING ORDER	1-5-3-6-2-4
RATING (SAE J1349 NET ; PRODUCTION TOLERANCE ±5%)	
STAND-BY	133.0 hp /1800 rpm (106.5 hp / 1500 rpm)
PRIME	122.0 hp /1800 rpm ( 98.0 hp / 1500 rpm)
IDLE ENGINE SPEED	1000±25 rpm
SPEED DROOP	5%
NO LOAD MAX. ENGINE SPEED	1980rpm
AIR INTAKE SYSTEM	TURBOCHARGED
LUBRICATION SYSTEM	FULL FORCED PRESSURE FEED TYPE
OIL PUMP	GEAR TYPE OIL PUMP BY CRANKSHAFT DRIVEN
ANGULARITY LIMIT	0.611 rad (35' ) ALL DIRECTION
LUBRICATION OIL CAPACITY	① MAX. <del>13.0</del> lit., MIN. <del>10.0</del> lit. (OIL PAN ONLY)
TYPE OF LUBRICATION OIL	API CD
COOLING SYSTEM	WATER CIRCULATION TYPE BY PRESSURIZED CENTRIFUGAL VANE TYPE BY VEE BELT DRIVEN
COOLANT CAPACITY	12 lit. (ENGINE ONLY)
FAN SPEED RATIO	1.12 (CRANKSHAFT PULLEY DIA. /FAN PULLEY DIA. )

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FUEL SYSTEM	BY PLUNGER AND NOZZLE, HIGH PRESSURE SOLID INJ. TYPE
INJECTION PUMP & GOVERNOR	ZEXEL MAKE, IN-LINE BOSCH A TYPE, WITH RSV VARIABLE SPEED CONTROL MECHANICAL GOVERNOR CONTAINING FUEL FEED/PRIMING PUMP
INJECTION TIMING	0.209 rad (12' ) BTDC
INJ. NOZZLE OPENING PRESSURE	18.1 MPa (185 kg/cm <sup>2</sup> )
TYPE OF FUEL	DIESEL FUEL
ELECTRICAL SYSTEM	NEGATIVE GROUNDING SYSTEM, 12V
STARTING AID	SHEATHED TYPE GLOW PLUG
STARTER	12V-2.5kW (DENSO)
ALTERNATOR	12V-60A (DENSO)
DRY WEIGHT	APPROX. 505 kg
DIMENSIONS(LxWxH. mm)	SEE ATTACHED DRAWING
ENGINE ASM DRAWING NO.	DG1-5321-2 ②
PERFORMANCE CURVE NO.	SD-6270
WIRING DIAGRAM	SD-6220

# ISUZU

## ISUZU DIESEL A-6BG1T

### PERFORMANCE CURVE

CURVE NUMBER : SD-6270 (JAN. '97)  
APPLICATION : GENERATOR SET  
CONDITION : SAE J1349 NET  
COOLING FAN: WITHOUT  
INLET AND EXHAUST RESTRICTION  
INLET : -250mmAq  
EXHAUST : +100mmHg  
PRODUCTION TOLERANCE : ±5%

STAND-BY 133hp/1800rpm, (106.5hp/1500rpm)  
PRIME 122hp/1800rpm, ( 98.0hp/1500rpm)

