

江西五十铃发动机有限公司

电站机性能参数表



ISUZU 
JMCG

产品特点 PRODUCT FEATURES:

1. 直喷燃烧室，易起动，油耗低，经济性好

Direct injection combustion chamber easy to start low oil consumption and economical to use

- 2 结构紧凑、重量轻，便于安装布置

Easy to install and compact, light weight and compact structure.

3. 动力强劲，振动小、调速率低

Strong power, low vibration, low steady state speed governing rate

- 4 零部件通用性好

Spare parts have good versatility

5. 接口符合 SAE 标准，市场互换性和通用性好

Power interface conforms to the SAE standard good market interchangeability and versatility

JE493 (DB/ZDB)系列柴油发动机主要技术参数
JE493 (DB/ZDB) Series Main Technical Specification

型号 model	JE493DB-04 JE493DBE-04	JE493DB-03 JE493DBE-03	JE493DB-02 JE493DBE-02	JE493DB-01 JE493DBE-01	JE493ZDB-04 JE493ZDBE-04	JE493ZDB-03 JE493ZDBE-03	JE493ZLDB-02 JE493ZLDBE-02	JE493ZLDB-01 JE493ZLDBE-01
型式 Type	直列、四冲程、水冷、直喷式燃烧室、机械调速(DB、ZDB、ZLDB)或电子调速(DBE、ZDBE、ZLDBE) Water cooling, in line, four-stroke, wet liner and direct injection machinery or electronic							
缸数 Number of cylinders	4							
缸径×行程 Bore×Stroke (mm)	93×102							
进气方式 Aspiration	自然吸气 naturally			涡轮增压 turbo		中冷增压 intercooling turbo		
活塞总排量 Displacement (L)	2.771							
压缩比 Compression ratio	18.2:1							
工作顺序 Fring order	1-3-4-2							
标定功率 Rated output (kW)	21	25	24	28	28	34	38	46
备用功率 Maximum power (kW)	24	28	27	31	31	38	42	51
标定转速 Rated speed (r/min)	1500	1800	1500	1800	1500	1800	1500	1800
机组常用输出功率 Reated power for generatorsets(kW)	16	20	20	24	24	28	32	36
最低空载稳定转速 Idling speed (r/min)	850							
最低燃油消耗率 (g/kW.h) Oil consumption rate	≤230			≤220		≤210		

外形尺寸(长×宽×高) Overall dimension (mm)	856×601×810	860×610×810	860×610×830
质量 Net mass (kg)	230	240	245
喷油器孔径 Injector diameter	0.25mm		0.27mm
喷油器开启压力 Injector opening pressure	200±0.5Mpa		
飞轮壳规格 Flywheel house sizing	SAE 4#		SAE 3#
飞轮规格 Flywheel sizing	SAE 7.5		SAE 11.5
飞轮齿圈数 Number of teeth or the flywheel	108		
排风扇直径 Fan diameter(mm)	420		
稳定调速率 Steady speed adjusting ratio at rated condition	机械调速≤5%，电子调速≤1% machinery≤5% electronic≤1%		
润滑方式/Lubricating method	压力润滑与飞溅润滑复合式 Pressure lubrication and splash		
起动方式/Starting method	电起动 Electric motor start		
曲轴转向/Crankshaft rotating direction	顺时针方向/Clockwise (从柴油机前端看/from the front view of diesel engine)		
机油容量/ Oil sump capacity (L)	5.6		
机油牌号/Oil	≥API CF-4		
机油压力/Oil pressure (MPa)	0.1—0.50		
噪音/Noise	≤93dB(A)		

标定功率烟度/Rated output FSN	<3.0
排气温度 Exhaust temperature (°C)	<500
机油温度 /Oil temperature (°C)	<110
冷却液温度 Coolingwater temperature (°C)	85±10
发电机/Generator	14V/50A
起动机/Starting motor	12V/2.8kW
转速传感器接口 Speed Sensor interface	M16×1.5
转速传感器与齿圈顶的距离 Distance between the mounting surface of the speed sensor and the top of the flywheel gear ring	0.45mm-0.75mm

注：技术参数系在标准环境（大气压力：100Kpa、进气温度 298K、干空气压 99Kpa、水蒸汽分压 1Kpa、相对湿度 30%）状况下的值。

Note: The parameters listed are values in standard environment (atmospheric pressure: 100Kpa, inlet temperature: 298K, dry air pressure: 99Kpa, partial pressure of water vapor: 1Kpa, relative humidity: 30%).