

S12H-PTA

INDUSTRIAL ENGINE | CONSTANT SPEED

MAX OUTPUT 1120 kWm

MITSUBISHI DIESEL ENGINE

POWERFUL AND RELIABLE



ENGINE DATA

Engine model	S12H-PTA
Engine type	4-stroke, diesel
Cylinder configuration	12/60°V
Bore x stroke (mm)	150 x 175
Total displacement (l)	37.11
Dry weight (kg)	4450
Aspiration	turbocharged

Cooling system	water-cooled with common jacket water and charge-air cooling circuits
Combustion system	direct injection
Fuel injection system	pump-line-nozzle (2x in-line pump)
Electrical system (V)	24
Rotation (ISO 1204)	counter clockwise
Flywheel and housing	SAE 18" / SAE #06

RATING^{1,2}

	Standby				LTP / PRP / DCCP			
	50		60		50		60	
Frequency (Hz)	without fan	with fan	without fan	with fan	without fan	with fan	without fan	with fan
Output (kWm)	1029	980	1120	1080	930	890	1020	980
Output (bhp)	1367	1314	1501	1448	1247	1194	1367	1314
Output (kWe) ³	969	931	1064	1026	884	846	969	931
Output (kVA) ⁴	1211	1164	1330	1283	1104	1057	1211	1164
Engine speed (rpm)	1500		1800		1500		1800	
Fuel consumption 100% load (g/kWh) ⁵	197	205	201	209	197	204	201	209
Fuel consumption 75% load (g/kWh) ⁵	198	209	201	212	199	211	201	212
Fuel consumption 50% load (g/kWh) ⁵	204	220	207	218	204	223	211	225
Emission	not regulated							

¹ For rating definitions, please see our website.

² All data represent rated performance with standard accessories under the condition of 1013hPa barometric pressure, 298 K ambient temperature and 30% relative humidity.

³ kWe ratings based on 95% alternator efficiency.

⁴ kVA ratings based on a power factor of 0.8.

⁵ Fuel consumption is based on ISO18484/T with +5% tolerance at 100% rated power, +10% tolerance at 75% and 50% rated power.

Mitsubishi S12h Pta Specification Sheet Diesel Engines

Zhe Xu



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Mitsubishi diesel engine UEL series ,1983 *Mitsubishi UE diesel engine* ,1979 Mitsubishi-Sulzer Diesel Engines Mitsubishi Jūkōgyō Kabushiki Kaisha,Gebrüder Sulzer Aktiengesellschaft,1977* **Mitsubishi Diesel Engine Model DC Series Shop Manual** ,1975 **Specification and Instructions for Solid Injection Four Cycle Diesel Engines Type Mu 32** Deutsche Werke,1936 **Diesel and Fuel-oil Engines (export Classifications)** ,1942

Specification for the Performance of Diesel Engines for Road Vehicles British Standards Institute Staff,British Standards Institution,1971-05-19 Road vehicle components Diesel engines Performance Compression ignition engines Testing conditions Test equipment Type testing Exhaust gases Opacity Performance testing Smoke Smoke detectors Power mechanics Diesel fuels Calorific value Certificates of conformity Data recording Chemical composition Chemical properties Torque *Specifications Manual K19 Diesel Engines* ,1985 *Standard Specification for Diesel Engines for Use in Fiery Mines* ,1967 *Diesel Engine Catalog* Rex W. Wadman,1953 Specification for Oil ,1961 **Requirements of Diesel Engines Operating Above 200 P.S.I. B.M.E.P., Etc** S. H. Henshall,J. Gallois,1967 **BS AU 141a: Specification for the performance of diesel engines for road vehicles** BSI. British Standards Institution,1971 Development of the Mitsubishi UEC7LSII Type Diesel Engine Yoshinori Hirayama,Mitsubishi heavy industries,1988 *Diesel Engine Specification Manual, Featuring Most Major Specifications of Over 175 Engines from the Following Makes-- AEC, Bedford, Caterpillar, Cummins, DAF, Daihatsu, Detroit, Deutz, Ford, GMC, Hino, IHC, Isuzu, Leyland, Mack, Man, Mazda, Mercedes, Mitsubishi, Nissan, Perkins, Scania, Toyota, Volvo* ,1995 **Shop Manual Diesel Engine 6D2.8DC '91** ,1991 This shop manual contains the specification construction operation adjustment and service procedures of the Mitsubishi diesel engine Model 6D2 8DC and is published for service mechanics Applicable engine models are 6D22 6D22 T0 6D22 T2 6D22 T3 8DC8 8DC91 8DC92 8DC9 T0 8DC9 T2 8DC11 Pub no TWNE9041 **Development of the Mitsubishi UEC75LSII Type Diesel Engine** Yoshinori Hirayama,Hiroaki Miyano,Mitsubishi Jūkōgyō Kabushiki Kaisha,Shigemi Ono,1988 *Specification and Instructions for Solid Injection Four Cycle Diesel Engines Typer MU 423* ,1935 *Mitsubishi New 12.0-liter Turbocharged and Intercooled Diesel Engine* Takashi Takahashi,Kohji Takami,Akira Matsumoto,Society of Automotive Engineers,1990

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