

MITSUBISHI HEAVY INDUSTRIES, LTD.



Technical features	Advantages
Low speed	Reliable operation
Fully automatic operation and synchronization technology	High efficiency 47.3%
High quality of gas control, advanced combustion diagnosis system	Low emission
Intelligent and remote computer monitoring technology, GPR technology	Stable start
Security protection Intelligent integration, automatic faults detection technology	Low operation cost
Gas-specific filtration, drying, pressing, regulating technology	Easy to operate
Specialized fire prevention, explosion-proof, cutting technology	Easy maintenance, long circle overhaul
Compressed air start technology of air motor	Safety
	High reliability (8000 hours)
	Long life(30 years)

Engine Series	MACH II-SI (KU30GSI)				Reference of Gen. set		
					Generator of Gen. set :		AC synchronous generator
Model	Four stroke, Pre-ignition chamber micro diesel oil ignition, water cooling, pressurize air inter-cooling, lean burn				Type of generator :		Satisfy relative national standard
					Rated voltage of Gen. set :		Can be selected
Engine Type	12 MACH II-SI	14 MACH II-SI	16 MACH II-SI	18 MACH II-SI	Rated current of Gen. set :		Can be selected
cylinders Configuration	V Type				Power factor of Gen. set :		0.8(lag)
No. of cylinders	12	14	16	18	Rated frequency of Gen. set:		Can be selected
cylinders Bore/Stroke (mm)	300 X 380				Starting mode of Gen. set :		Air starting
Nominal speed	750r/min				Cooling mode of Gen. set :		Air cooling
steady speed adjusting rate	8% (100% load)				Noise of Gen. set :		110dB(A) (From air exhaust port 1m)
Generator type	Options :400V, 6.3kV、 10.5kV Or according to customer requirement				Gas pressure :		0.98MPa(after pre-treatment)
Rated power (KW)	3800	4450	5100	5750	Oil consumption :		0.5g/kw.h
Continuous power of Gen. set (KW)	3450	4050	4640	5200	NOx emission – (ppm) :		320 or less (O2: 0%)
Steam of exhaust gas boiler (078 MPaG)kg/h	2260	2640	3060	3440	Methane Number :		≥65
Rotary Direction	CW				Air exhaust noise :		110dB(A) (from air exhaust port 1m)
Fuel type	(pure gas)				Piston total delivery capacity :		483L
Electrical efficiency %	47.3 %				18 MACH II-SI - Reference conditions		
Gas consumption	781 Nm3/h	911 Nm3/h	1041 Nm3/h	1172 Nm3/h	Air exhaust temperature :		about 9000kJ/kW.h
					Air exhaust flow :		4000Nm3/h
External Dimensions (mm)	14100 × 3600 × 5400	14700 × 3600 × 5400	15100 × 3600 × 5400	15500 × 3600 × 5400	Air exhaust back pressure :		2.5kPa
					Heat consumption :		345 C°
Net Weight (Kg)	94000	104000	114000	125000	Chp-PDF-	technorogy_for_environment PDF	efficiency enhancement-PDF