

MODEL: SMI1155 INDUSTRIAL RANGE Powered by MITSUBISHI





DIESEL GENERATING SET 400/230 V - 50 Hz - 3PHASE

POWER RATING		PRIME	STANDBY	
POWER	kVA	1050	1155	
FOWER	kW	840	925	
Rated Speed	r.p.m	1500		
Available Voltages	V	400/230 - 380/220-415/240V-440/254 etc		
Rated at power factor	Cos Phi	0.8		

Standard Reference Conditions: 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 hours of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 hours of operation shall not exceed 70 % of the ESP

ENGINE		PRIME	STANDBY
Rated Output	kW	890	980
Manufacturer		MITSUBISHI JAPAN	
Model		S12H-PTA	
Number of Cylindirs and arrangement		4 Cycle; 12V Cylinder Diesel	
Aspiration Type		Turbo-Charged, After Cooler	
Bore and Stroke	mm	150X175	
Compresion Ratio		14.0:1	
Cooling System		Water-cooled	
Engine Speed/Frequency	rpm/Hz	1500/50HZ	
Coolant Capacity Engine Only	L	244	
Starting System		Electric 24 volt DC	
Displacement	L	37.11	
Lubricant system Capacity	L	200	



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Battery Volatge / Capacity			24\	/DC	
Governor	Туре		Elec	trical	
Air Filter	Туре	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	197.0			

ENGINE: Industrial 4 stroke cooled diesel engine complete with air, fuel and oil filters, electric starting and charging equipment, engine protection against low water level.

COOLING:Radiator and colling fan complete with protection guards, designed to cool engine at specified output in air temperatures upto 50 °C, radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM:12/24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM: Heavy duty industrial exhauset silencer with flexible piping.

ALTERNATOR MANUFACTURER	STAMFORD	LEROY SOMER	PRIME POWER
Model	HCI634J	TAL-A49-E	SMG634J
Excitation System	PMG	Self-excited	PMG
Number of Poles	4		
Connection Type		Star-Series	
Insulation Class	Class H		
Voltage Regulator	A.V.R. (Electronic)		
Bracker Type	Single bearing		
Steady Voltage Precision	± 0.5% ± 1% ± 0.5%		
Couping System	Flexible disc		
Coating Type	Standard (Vacuum impregnation)		
Underspeed Protection	Standard		
Ingress Protection Rating	IP23		
Wave Form NEMA=TIF	<50		

CONTROL PANEL: COMAP AMF20 Or DSE7320

Auto Mains Failure Control Panel

- Panel equipments:
- Δ Control with AMF module
- Δ Static battery charger
- Δ Emergency stop push button





a) Generating set control module features:

 Δ The module is used to monitor main supply and starts and stops of a standby generating set

- Δ Micro-processor based design
- Δ Automatic control of main and generator contactors

 Δ Monitors engine performance and AC power output LED alarm indication

c) Alarms:

 Δ Over and Under Speed

- Δ Low and High Battery Volt.
- ∆ Start and Stop Failure
- Δ Charge fail



Δ Front panel configuration of timers and alarm trip points
Δ CAN and magnetic pick-up versions(specify on ordering)
Δ Easy push button control
Δ STOP/RESET - MANUAL - AUTO - TEST – START

b) Metering via LED display:

Δ Generator Volts (L-L / L-N)	Generator kVA
Δ Engine oil pressure (PSI-Bar)	Generator kW

 Δ Generator Ampere (L1,L2,L3) Generator Cos (o)

 Δ Engine temperature (°C&°F)

Δ Generator Frequency (Hz)

∆ Engine run hours

∆ Mains Volts (Ph-Ph/Ph-N)

Voltage Regulation

 Δ Voltage regulation maintanined within ±0.5%

Δ Between 0.8 and 1.0 lagging and unity

Frequency Adjustable Ratio

 Δ From no load to full load

 Δ At speed droop variation upto 4.5%

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation				
Δ Load from 0-100%, frequency undulation within 0.25%	∆ Effect factor of Telecom			
Δ No load wire volts max undulation ration\ within 1.8%	Δ TIF better than 50			
Δ Three Phrase balanced load in the order of 5%	Δ THF to IEC60034 Part 40 better than 2%			
Robust Corrosion Resustant Construction				
Δ Black finish stainless stell lock and hinges Δ Two large doors on each side				
Δ Body made from steelcomponents treated with polyester powder coating				
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 Δ Lube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

 Δ Control panel viewing window in a lockable access door

 Δ Cooling fan and battery charging alternator fully guarded

 Δ Emergency stop buttom mounted on enclosure interior

 Δ Exhaust silencing system totally enclosed for operator safely



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- Δ Over Current Δ Under / Over Generator Voltage Δ Low Oil Pressure
 - Δ Emergency stop
 - Δ High engine temperature

d) LED indications

- Δ Mains available
- Δ Generator available
- Δ Mains on load
- Δ Generator on load



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Engine	Alternator	Generator Sets	Fuel System	Canopy
Vater Jacket Preheater	∆ Winding Temperatrue Measuring Instrumeent	Δ Auto Transfter Switch	∆ Low fuel level alarm shutdown	Δ Super silent type
Oil Preheater	∆ Alternator Preheater	Δ Parallel control panels	Δ Automatic Fuel Filling	
∆Engine oil feeding and drain pump	ΔPMG	Δ Trailer type Gensets	System	
	Δ Anti-damp and anti- corrosion treatment	Δ Residential Silencer		
	Δ Anti-condensation heater	Δ Bulk fuel tank		

Quality Standards	
ISO9001:2000,ISO14000,ISO3046	BS5514,AS1359,ICE34
ISO8528 BS4999	CE Compliance
Gensets Dimensions & Weight & Fuel Tank Capacity	
Open type:LxWxH (mm),Dry Weight / Kgs, Fuel tank (L)	Silent type:LxWxH (mm), Dry Weight / Kgs,Fuel tank (L)

4370*2100*2214, 8600kgs

6058*2438*2591,13190Kgs

Local Distributor:





FUZHOU SUNSHINE MACHINERY CO., LIMITED Fuzhou, Fujian, China.



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