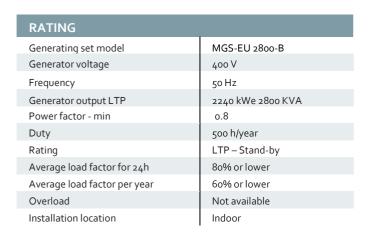


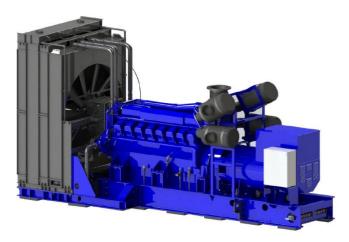
MGS-EU 2800-B - RADIATOR

MITSUBISHI GENERATOR SET

EU MADE (France)

Quality, reliability, performance, and partnership - Mitsubishi Heavy Industries Group.





DESIGN CONDITIONS	
Ambient temp - avg/max	25/40°C
Ambient temp – min	o°C
Altitude (maxi)	1000 m a.s.l
Relative humidity (maxi)	85%
Fuel oil LHV	42700kJ/kg
Fuel oil	Diesel
Fuel oil gravity at 15°C	o.83 to o.87
Fuel oil sulfur content max	0.2% by weight
Fuel oil viscosity min(60°C)/max(50°C)	2.0/8.0 cSt
Fuel oil cetane number – min	45
Lube oil capacity - max	290 liters
Emissions-other version available	unregulated

ALTERNATOR DATA		
Enclosed, self ventilated, self-regulated, brushless		
Bearing configuration	Double	
Insulation class	Н	
Temperature rise class	Н	
Cooling method	Air ICo1	
Protection	IP23	
Excitation system	Digital	
PT100 for bearing and stator winding		
AVR for single and parallel operation		
Space heater		
Set of CT's for measure or protection		

Engine model	S16R2 PTAW2-E		
Engine speed	1500 Rpm		
Engine brake output	2109 kWm		
Cylinder configuration	16 V		
Total displacement	79.9 liters		
Bore x Stroke	170 X 220 mm		
Compression ratio	14.0:1		
Turbocharged	4 cycles		
Governor	Electric		
Cooling method (engine driven pump)	Water (radiator)		
Starting method	Electrical 24 V DC		

CE COMPLIANCE

2006/42/EC: machinery

LANGUAGE – UNITS

Drawings, documents, nameplates in English

 ${\sf SI\ metric\ system}$

ENGINE DATA



PERFORMANCES @ LTP (LV: 400V)	
Generator output	2240 kWe
Specific consumption – ISO3046/1 : 0/+5%	215 g/kWh
Fuel oil consumption @ 100%	577 L / h
Fuel oil consumption @ 75% (PRP)	377 L / h
Exhaust gas temperature	480° C
Exhaust gas flow rate	562 m3/min
Air intake flow rate	212 m3/min
Noise level@ 1m (open skid)	113.1 dB (A)

RADIATOR DATA	
Heat rejection HT/LT	958/691 kW
Air on temperature by 150m a.s.l	45°C
Coolant	MEG 30%
Max external pressure drop	100Pa
Max outlet temperature (air)	81°C
Airflow	42.5 m3/s
Coolant capacity HT/LT incl. engine	405/313 liters

TOLERANCES AND CONDITIONS

Efficiency data for average conditions (avg) – derating above 1000 m asl or 40°C intake air temperature

Fuel input: 0/+5% (ISO3046/1). Submitted to fuel oil specification confirmation

Heat rejection data: +/- 12%. Add 17% margin for remote dry air cooler design

Exhaust gas flow / temperature: +/- 6% - +/- 8%

Pictures are not contractual and may include optional accessories

These data are not contractual. They can be modified by MTEE without prior notice

STANDARDS

I.S.O.: International Standard Organization

C.E.N.: European Standard Committee

I.E.C: International Electric Commission

J.I.S: Japanese Industrial Standards (for engine)

J.E.C: Japan. Electrotechnical committee (engine)

J.E.M: Japan Elec. Manufacturers Association (Eng.)

Manufacturers standards

GENERATOR SET EMBEDDED CONTROL PANEL

Manual start and stop by push buttons on the (CGC) Compact Genset Controller (DEIF made)

Automatic start and stop sequence (AMF)

Automatic engine and alternator protection

Automatic control of engine auxiliaries and power supply:

- Jacket water heater (if applicable)
- Alternator space heater

Lube oil priming pump

24 V DC energy block to supply control system and panel equipment

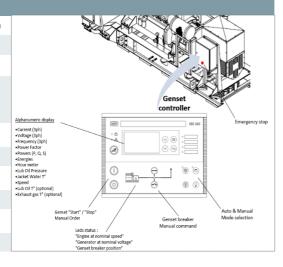
24 V DC charger to supply engine starting batteries

Display and monitoring of operating data, alarms and history logs

Optional functions for parallel operation with other genset or grid

Optional functions for power management, peak shaving, etc...

Modbus RS485 - Optional ethernet TCP/IP com port for internet remote access



GENERATOR SET EMBEDDED CIRCUIT BREAKER PANEL (OPTION FOR CE MARKING)

Air circuit breaker (ACB)

Motorized - 3 poles - 4000 amp - 400 VAC (4 poles on request)

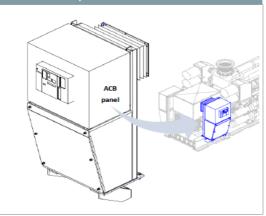
Electric protection relay

Command coil 24 V DC

Auxiliary contacts

Key lock, On/Off button lock, Safety labels

Downstream side protected by cover case for easy cable connection with no free access to live parts

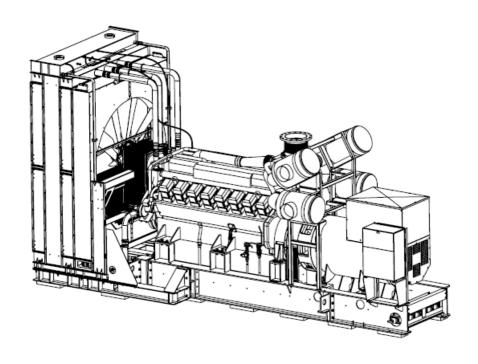


MOVE THE WORLD FORW→RD MITSUBISHI

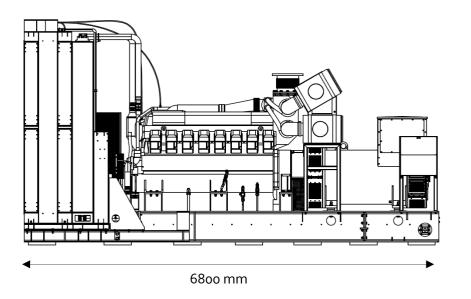
MITSUBISHI HEAVY INDUSTRIES GROUP

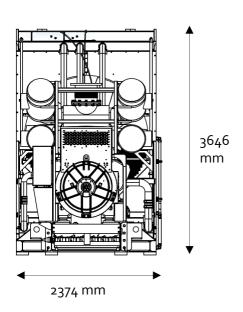


MGS-EU 2800 GENSET (S16R2 PTAW2E/ECO46-VL4 A) LAYOUT



Dry Weight = 18750 Kg









SCOPE OF SUPPLY

- Standard item
- o Option

Elastic suspensions of the generating set Starting batteries and cables High voltage (HV) alternator 3 to 11 kV with 100 V VTs Jacket water heating O O O O O O Jacket water heating O O O O O O O Alternator space heater Pump for lube oil priming, filling and draining OI in sits separator OV O O O O O O O O O O O O O O O O O O	- Not included or not applicable		Open skid set		Containerized set	
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Step up transformer LV / HV 15 to 20 kV - 0 - 0 LV connection busbar from alternator to transformer - 0 - 0 Sound proofed generating set container - - - • • Elbow pipe between the engine and the silencer - - - • • Water pipes from engine to remote dry air cooler - - - 0 0 Lube oil pipes from service tank to engine lube oil level regulator - - - • • LV cables from alternator to protection circuit breaker - - - • • LV cables from transformer to protection circuit breaker - - - • • HV cables from transformer to protection circuit breaker - - - • • Fuel oil mass flow meter fitted on genset baseframe 0 0 0 0 • Fuel oil mass flow meter fitted on genset control panel (remote desktop PC) 0 0 0 0 Scada system, connected to genset control panel (remote desktop PC) 0 0 0 0		0	0	0	0	
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On site assistance for supervisory, commissioning and training o o o o		0	0	0	0	
		0	0	0	0	
		0	0	0	0	

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More information

Contact your local dealer for more information regarding Mitsubishi Generator Sets and optional equipment or, visit equipment or, visit equipment or,

