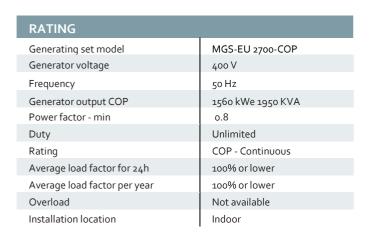


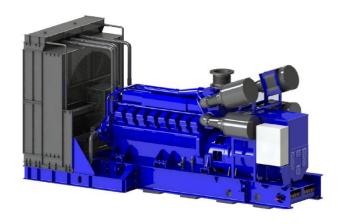
MGS-EU 2700-COP - RADIATOR

# 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	Single	
Insulation class	Н	
Temperature rise class	F	
Cooling method	Air ICo1	
Protection	IP <sub>23</sub>	
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 DATA	
Engine model	S16R2 PTAW
Engine speed	1500 Rpm
Engine brake output	1960 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

 ${\sf SI\ metric\ system}$ 



PERFORMANCES @ COP (LV : 400V)	
Generator output	1560 kWe
Specific consumption – ISO3046/1 : 0/+5%	211 g/kWh
Fuel oil consumption @ 100%	391 L / h
Fuel oil consumption @ 75%	291 L / h
Exhaust gas temperature	505° C
Exhaust gas flow rate	377 m3/min
Air intake flow rate	143 m3/min
Noise level@ 1m (open skid)	113.1 dB (A)

RADIATOR DATA	
Heat rejection HT/LT	758/561 kW
Air on temperature by 150m a.s.l	45°C
Coolant	MEG 30%
Max external pressure drop	150Pa
Max outlet temperature (air)	81.2°C
Air flow	34.4 m3/s
Coolant capacity HT/LT incl. engine	347/247 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 (AGC) Automatic Genset Controller (DEIF made)

Automatic start and stop sequence with synchronization with other source

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

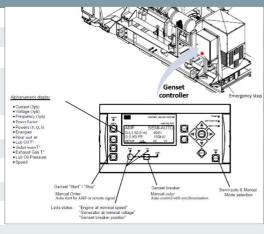
24 V DC charger to supply engine starting batteries

Display and monitoring of operating data, alarms and history logs

Island or 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)

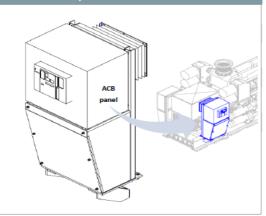
Electric protection relay

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

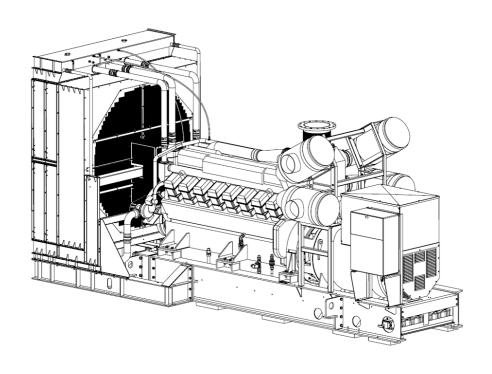


MOVE THE WORLD FORW→RD MITSUBISHI

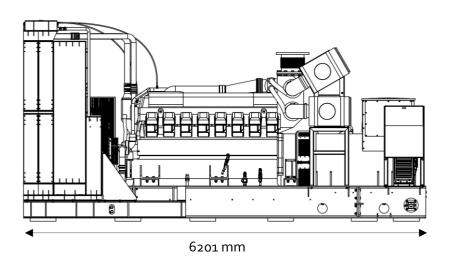


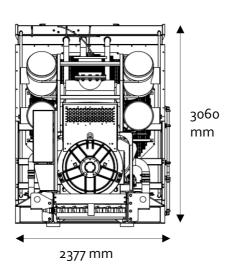


# MGS-EU 2700 GENSET (S16R2 PTAW / ECO46-2L/4) LAYOUT



Dry Weight = 638oKg









# SCOPE OF SUPPLY

- Standard item
- o Option

Elastic suspensions of the generating set  Elastic suspensions of the generating set  Elastic suspensions of the generating set  Starting batteries and cables  High voltage (HV) alternator 3 to 11 kV with 100 VTS  Jacket water heating  O O O O O  Alternator space heater  Pump for lube oil priming, filling and draining  OII mist separator  Finging driven intercooler pump (mounted on engine)  Engine driven intercooler pump (mounted on engine)  Engine driven intercooler pump (mounted on engine)  Remote external dry air cooler (removal of radiator on base frame)  Thermostatic valve for intercooler (with by-pass, mounted on engine)  Embedded Genset Control Panel, including ausiliaries power supply  Embedded Generating set protection Circuit Breaker Panel (LV, HV)  O O O  Embedded Generating set protection Circuit Breaker Panel (LV, HV)  Generating set finishing colors Ellus Pats 2 oo  Exhaust silencer 3 ot 5 of Blk) Alternation (loose supply for open skid)  Exhaust silencer 3 ot 5 of Blk) Alternation (loose supply for open skid)  Exhaust silencer 3 ot 5 of Blk) Alternation (loose supply for open skid)  O O O O O  Exhaust clank x 5 oo Ilter capacity, Uoose supply for open skid)  O O O O O  Exhaust clank x 5 oo Ilter capacity, Uoose supply for open skid)  O O O O O  Exhaust clank x 5 oo Ilter capacity, Uoose supply for open skid)  O O O O O  Extended Generating set protection Circuit Breaker Panel (LV, HV)  O O O O O  Exhaust clank x 5 oo Ilter capacity, Uoose supply for open skid)  O O O O O  Exhaust clank x 5 oo Ilter capacity, Uoose supply for open skid)  O O O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O  Extended of the x 5 oo O O O O  Extended of the x 5 oo O O O O O  Extended of the x 5 oo 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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Elastic suspensions of the generating set Starting batteries and cables High voltage (HV) alternator 3 to 1s kV with 100V VTS Jacket water heating Jacket water propriets on a color of the policy of	Steel base frame with engine-alternator-radiator	•	•	•	•
Starting batteries and cables High voltage (HV) alternator 3 to 1 kV with 100V VTS		•	•	•	•
High voltage (HV) alternator 3 to 11 kV with 100V VTS  alacket water heating  Alternator space heater  Pump for Jube oil priming, filling and draining  O O O O O O O O O O O O O O O O O O O		•	•	•	•
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Alternator space heater Pump for lube oil priming, filling and draining	Jacket water heating	0	0	0	0
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Oil mist separator Or yair filter, high efficiency on turbocharger Engine driven jacket water pump (mounted on engine) Engine driven jacket water pump (mounted on engine) Engine driven intercooler pump (mounted on engine) Engine driven intercooler pump (mounted on engine) Engine driven intercooler (memoval of radiator on base frame) O O O O O Thermostatic valve for jacket water (with by-pass, mounted on engine) Thermostatic valve for jacket water (with by-pass, mounted on engine) Thermostatic valve for place of the cooler (memoval of radiator on base frame) Thermostatic valve for place of the cooler (memoval of radiator on base frame) Thermostatic valve for place of the cooler (with by-pass, mounted on engine) Thermostatic valve for place of the cooler of the co	Pump for lube oil priming, filling and draining	•	•	•	•
Engine driven jacket water pump (mounted on engine) Engine driven Intercooler pump (mounted on engine) Engine driven Intercooler pump (mounted on engine) O O O O Thermostatic valve for jacket water (with by-pass, mounted on engine) Thermostatic valve for jacket water (with by-pass, mounted on engine) Embedded Genset Control Panel, including auxiliaries power supply Embedded Genset Control Panel, including auxiliaries power supply Remote control panel, including auxiliaries power supply Remote control panel, including auxiliaries power supply, with Harness Assy O O O O O Embedded Generating set protection Circuit Breaker Panel (LV) O O O O O O O O O O O O O O O O O O O		0	0	0	0
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Engine driven Intercooler pump (mounted on engine) Remote external dry air cooler (removal of radiator on base frame) Remote external dry air cooler (removal of radiator on base frame) Remote external dry air cooler (with by-pass, mounted on engine) Remote control panel, including auxillaries power supply Remote control panel, including auxillaries power supply, with Harness Assy OOO Remote Generating set protection Circuit Breaker Panel (LV) Remote Generating set protection Circuit Breaker Panel (LV, HV) OOO Remote Generating set protection Circuit Breaker Panel (LV, HV) OOOO Remote Generating set protection Circuit Breaker Panel (LV, HV) OOOOO Remote Generating set protection Circuit Breaker Panel (LV, HV) OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO		•	•	•	•
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Remote control panel, including auxiliaries power supply, with Harness Assy  o o o o o o o o o o o o o o o o o o		•	•	•	•
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Generating set finishing color: Blue RAL 5010       • <td< td=""><td>Generating set factory tests (standard program)</td><td>•</td><td>•</td><td>•</td><td>•</td></td<>	Generating set factory tests (standard program)	•	•	•	•
Exhaust silencer 30 to 50 dB(A) attenuation (loose supply for open skid)  Exhaust bellow on turbocharger outlet  Automatic lube oil level regulator on engine sump  Lube oil service tank 200 liter capacity (loose supply for open skid)  Fuel oil daily tank 500 liter capacity, up to 6000 liter (loose supply for open skid)  Set of fuel oil flexible for engine  Engine standard tools for routine maintenance  Engine standard tools for routine maintenance  O O O O O O O O O O O O O O O O O O O		•	•	•	•
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Set of fuel oil flexible for engine  Engine standard tools for routine maintenance  O O O O O O O O O O O O O O O O O O		0	0	•	•
Engine standard tools for routine maintenance  OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO		•	•	•	•
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       -       -       -       0       0         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       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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Sound proofed generating set container  Elbow pipe between the engine and the silencer  Water pipes from engine to remote dry air cooler  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  O  O  O  O  O  O  O  O  O  O  O  O  O		-	0	-	0
Elbow pipe between the engine and the silencer  Water pipes from engine to remote dry air cooler  Lube oil pipes from service tank to engine lube oil level regulator  LV cables from alternator to protection circuit breaker  HV cables from transformer to protection circuit breaker  Fuel oil mass flow meter fitted on genset baseframe  O  O  O  O  Scada system, connected to genset control panel (remote desktop PC)  O  Fuel oil centrifugal unit (separator) for water and sludge removal  O  O  O  O  O  O  O  O  O  O  O  O  O	Sound proofed generating set container	-	-	•	•
Water pipes from engine to remote dry air cooler  Lube oil pipes from service tank to engine lube oil level regulator  LV cables from alternator to protection circuit breaker  HV cables from transformer to protection circuit breaker  Fuel oil mass flow meter fitted on genset baseframe  O  O  O  Heavy duty oil bath air filter for dust/sand ambient condition  Scada system, connected to genset control panel (remote desktop PC)  O  Fuel oil centrifugal unit (separator) for water and sludge removal  O  Oversized dry air cooler for high ambient temp  O  O  O  O  O  O  O  O  O  O  O  O  O		-	-	•	•
Lube oil pipes from service tank to engine lube oil level regulator  LV cables from alternator to protection circuit breaker  HV cables from transformer to protection circuit breaker  Fuel oil mass flow meter fitted on genset baseframe  O  O  O  O  O  O  O  O  O  O  O  O  O		-	-	0	0
LV cables from alternator to protection circuit breaker  HV cables from transformer to protection circuit breaker  Fuel oil mass flow meter fitted on genset baseframe  O O O O O O O O O O O O O O O O O O		-	-	•	•
HV cables from transformer to protection circuit breaker Fuel oil mass flow meter fitted on genset baseframe		-	-	•	-
Fuel oil mass flow meter fitted on genset baseframe  o o o o o o o o o o o o o o o o o o		-	-	-	•
Heavy duty oil bath air filter for dust/sand ambient condition 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	0
Scada system, connected to genset control panel (remote desktop PC)ooooFuel oil centrifugal unit (separator) for water and sludge removalooooOversized dry air cooler for high ambient tempooooOn site assistance for supervisory, commissioning and trainingoooo					
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Oversized dry air cooler for high ambient temp 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
On site assistance for supervisory, commissioning and training					
Attenutor according to specific country and code	Alternator according to specific country grid code	0	0	0	0

# **CONTACTS DETAILS**

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e-mail: mteef@mtee.eu

## More information

Contact your local dealer for more information regarding Mitsubishi Generator Sets and optional equipment or, visit <a href="equipment-genset.mhi.com">equipment or,</a> visit <a href="equipment-genset.mhi.com">equipment or,</a>

