DIESEL GENERATOR SET MTU 4R0113 DS80

400 – 230 V/73 kVA/50 Hz/Prime Power 400 – 230 V/80 kVA/50 Hz/Standby Power IVECO – NEF45 SM 2A



Optional equipment and finishing shown. Standard may vary.

PRODUCT HIGHLIGHTS

// Benefits

- Low fuel consumtion
- Emissions optimizations available
- High availability and reliability
- Outstanding load acceptance
- Long maintenance intervals

// Support

- Global product support offered

// Standards

- Engine-generator set is designed and manufactured in facilities certified to standards ISO 2008:9001
- Generator set complies to ISO 8528 and fullfills performance level G2
- Generator meets BS5000; NEMA MG 1; ISO; DIN EN and IEC standards
- NFPA 110

// Available emissions optimizations

- Exhaust emission EU 97/68 EC Stage II
- Fuel optimized

// Wide Standard Scope of Supply

- 4P circuit breaker
- Island operation control panel
- Integrated fuel tank
- Industrial silencer (15 dB(A))
- Batteries & battery charger

// Complete range of accessories available

- Sound attenuated enclosure
- Fuel system accessories
- Control panel & ATS
- Range of additional electronical options

// Warranty

- Standard 36 months warranty after shipment



APPLICATION DATA

// Engine

Manufacturer	IVECO
Model	NEF45 SM 2A
Туре	4-cycle
Arrangement	4-L
Displacement: L	4.5
Bore: mm	104
Stroke: mm	132
Compression ratio	17.5
Rated rpm	1500
Engine governor	mechanical
Net power: kWm (prime/standby)	66/73
Air cleaner	Dry

// Fuel System

Fuel tank capacity: OPU (EPU) in L	145 (288)
Autonomy: h	11

// Fuel Consumption

	L/h
At standby power rating:	19
At 100% of power rating:	17.1
At 50% of power rating:	8.6

// Liquid Capacity

Total oil system: L	12.8
Total coolant capacity: L	18.5

// Generator

Generator brand	Mecc-Alte
Generator type	HM200B3N
Insulation class	H-class
Bearing	single bearing
Enclosure	IP23 M
Voltage regulation	A.V.R. (electronic)
Exciting system	self-excited, brushless

// Electrical

Electric system volts DC	12
Battery capacity: Ah	100

// Air Requirements¹

Aspirating: m ³ /h	295
Cooling air flow: m ³ /s	2.2

// Exhaust System

Gas temp. (stack) [©] : °C	525
Gas volume at stack temp. [®] : kg/h	371
Maximum allowable back pressure: kPa	5

// Cooling/Radiator System

Ambient capacity	of radiator:	OPU (EPU)	in °C	50 (40)

1 Technical data is for 100% power.

② Technical data is for prime power.

 $\ensuremath{\textcircled{3}}$ $\ensuremath{\textcircled{3}}$ Technical data is for standby power.

STANDARD AND OPTIONAL FEATURES

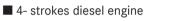
// System Ratings (kW/kVA)

	MTU 4R0113 DS80	MTU 4R0113 DS80
	Prime operation	Standby operation
Voltage	400 V	400 V
Phase	Three phase	Three phase
Hz	50	50
kWel*	58.4	64.0
kVA**	73	80
Rated AMPS	105.4	115.5

* cos phi = 1,0 ** cos phi = 0,8

Also available for following voltages 380V & 415V - for details please contact your local MTU Onsite Energy Dealer.

// Engine



- Flywheel housing SAE 3
- Flywheel 11 1/2"
- Oil pan

// Fuel system

- Fuel filter with water-separatorDirect fuel injection system
- Automatic fuel transfer pump

Lube oil circulation pump

Dry exhaust manifolds

Lube oil filter

- Heavy-duty fuel pre-filter with water seperator
- 3-way valve for fuel filling
 Integrated fuel tank (level sensor and drain cap incl.)

Hot components and radiator guards

Mobile components guards

□ Electronic engine regulator

// Generator

 ■ 3-Phase, syncronos, brushless, self exciting, self regulating, self ventilating alternator
 ■ IP23 M protection degree
 □ IP23 protection cover
 □ Winding temperature sensors

// Control Panel & Electric Options

- Control and power electric panel, with measurements devices and contoller
 ATS (Automatic Transfer Switch)
- $\hfill\square$ Control version for parallel operation
- Control version for synchronizing a
- single genset with mains

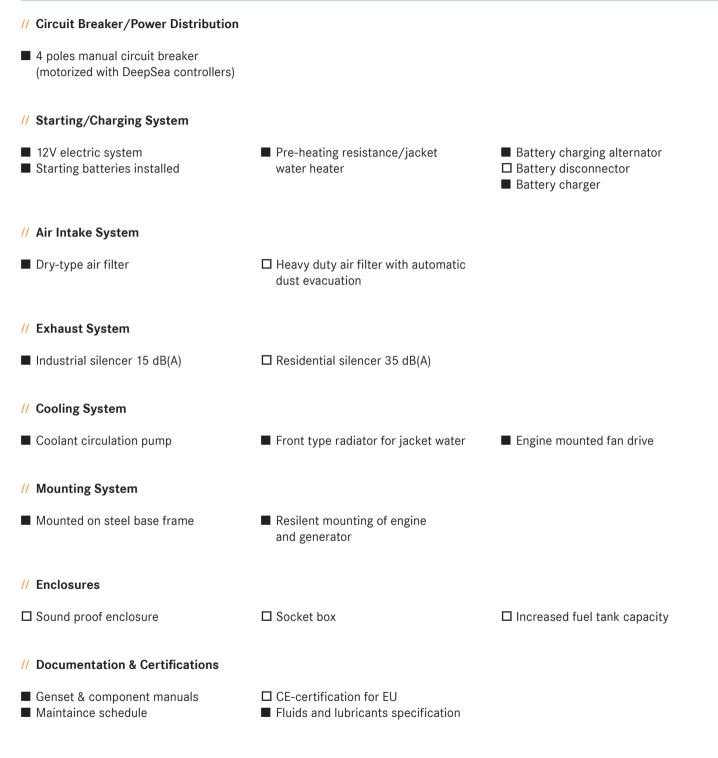
 Programmable timer for MM7 and
 MC7
- Remote display
- Expansion module for CAN communication
- □ Change over power supply for MC7
- □ Input Output/LED expansion modules for DeepSea controllers
- □ ModBus connection to

Insulation class H

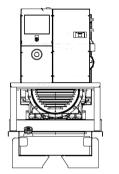
□ Anti condensation

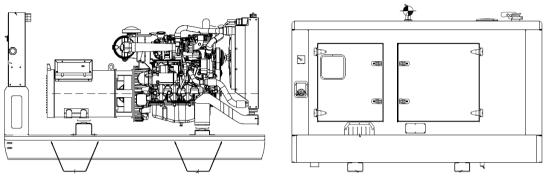
- customer systems TCP/IP
- □ Control version for synchronizing with mains without blackout
- Converter kits CAN to RS485/USB/LAN

STANDARD AND OPTIONAL FEATURES, CONTINUATION



WEIGHTS AND DIMENSIONS





Drawing above for illustration purposes only, based on standard open and enclosed power 400 Volt engine-generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.

System	Dimensions (LxWxH)	Weight (wet/with standard accessories)
Open Power Unit (OPU)	2.150 x 780 x 1.500 mm	974 kg
Enclosed Power Unit	2.750 x 1.100 x 1.760 mm	1.564 kg

Consult the factory for accurate weights and dimensions for your specific engine-generator set. Lengths may vary with other voltages. Do not use for installation design.

SOUND DATA

Unit Type	
Open Power Unit: dB(A)	on request
Enclosed Power Unit: dB(A)	69
According to 2000/14/CE.	
Sound data is provided at 7m for 75% prime power.	

RATING DEFINITIONS AND CONDITIONS

- // Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789 and DIN 6271. Average load factor: < 75%.</p>
- // Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789 and DIN 6271. Average load factor: < 85%, max. 500h/year.</p>
- // Derating factor:
 - Altitude: Consult your local MTU Onsite Energy Power Generation distributor for altitude derating. Temperature: Consult your local MTU Onsite Energy Power Generation distributor for temperature derating.

Rated power for reference conditions at 25°C and 100m above sea level.

Materials and specifications subject to change without notice.

MTU Onsite Energy Part of the Rolls-Royce Group