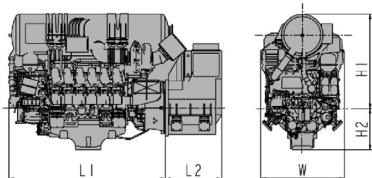
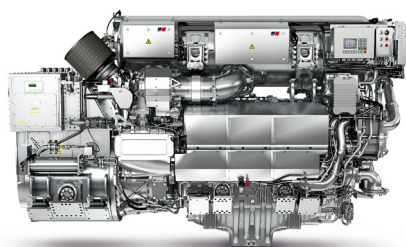




Marine

SERIES 4000 U83

Submarine Charging Unit



Optional equipment and finishing shown. Standard may vary.

Engine	Dimensions (L ₁ xWxH ₁) mm (in)	Mass engine, dry kg (lbs)
4000 U83	3100 x 1550 x 1800 (122 x 61 x 70.9)	9740 (21470)
Engine	Dimensions (L ₂ ²⁾ xWxH ₂) mm (in)	Mass charging unit, dry kg (lbs) ²⁾
4000 U83	1140 x 1550 x 800 (44.9 x 61 x 31.5)	14000 (30865)

1) Dimensions may vary with generator model

2) Mass of charging unit may vary with generator model

Engine main data		
Bore/stroke	mm (in)	170/190 (6.7/7.5)
Displacement, total	l (cu in)	51.7 (3155)
Intake air temperature	°C	45
Raw water temperature	°C	32

Engine type			12V 4000 U83
Application			6A
Rated power according to ISO 3046, ICXN ³⁾	kW (bhp)		1300 (1743)
Max. rated power according to ISO 3046, ICFN ⁵⁾	kW (bhp)		1500 (2011)
Speed	rpm		1800
Emissions ⁴⁾			IMO II (surface operation)
Intake pressure	mbar		960
Exhaust pressure	mbar		1600

3) Engine rating, project specific genset ratings on request

5) Boost-mode, available for up to 10% of total operating hours without restrictions on maintenance schedule; available power may vary with operating conditions.

4) IMO II - International Maritime Organization

Application	Power definition	
6A	Continuous oper., unrestricted	Load factor: < 100%, operating hours: unrestricted, TBO: 12 000 h or 22 years

Power output within 5% tolerance at standard conditions. Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions). Consult your MTU distributor/dealer for the rating that will apply to your specific application.

Main characteristics of series 4000 U based charging units

Operation with lead or li-based batteries

3 selectable operation modes:

- range/endurance operation
- acoustic optimized operation
- surface operation (emission compliant with IMO II)

Boost-mode:

- max. rating available for accelerated charging mode

Resilient engine/generator mounting system

Shock resistance in accordance with common naval standards

Integrated starting system via generator

Integrated engine & generator heat exchangers

Passive airborne and structure borne noise limits in accordance with common naval standards

Integrated system automation including autonomous (black ship) operation

Optional double resilient mounting system for charging unit

ILS support including preventive maintenance support in accordance with naval platform requirements

Specifications are subject to change without notice. All dimensions are approximate. For complete information refer to installations drawing. For further information consult your MTU distributor/dealer.