



U810-60

Powered by:
MTU 12V 2000 G85

809 kW at 60 Hz



Generating Set Performance		60 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	920	1,011
Active power output *	kW	736	809
Rated speed	r.p.m.	1,800	
Standard Voltage	V	480	
Voltage available	V	480/277 - 440/254	

Performance data refers to Standard Reference Conditions of **ISO 8528** : + 25 °C , 100 m ALT, relative humidity 30 %

During running-in period the output increases by approx. 5 % which is taken into consideration at delivery.

Power reduction acc. to **DIN ISO 3046**. Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

* Considering $\cos \phi = 0,8$

Prime Mover Performance		1,800 r.p.m.	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kW	810	890
Manufacturer		MTU	
Engine model		12V 2000 G85	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED AND AFTERCOOLED	
Cylinders, number and arrangement		12 - V	
Bore x stroke	mm	130 x 150	
Total displacement	L	23.88	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio		16 : 1	
Specific fuel consumption (P.R.P)	g/kWh	209	
Specific oil consumption (at full load)	%	1.00	
Lube oil maximum capacity	L	74	
Total coolant capacity	L	90	
Speed governor	Type	Electronic, system MDEC	
Air filter	Type	DRY	

(1) Prime Power (P.R.P.) - ISO 8528: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) Max Stand-by power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% loads 25 h per year - 90% loads 200 h per year No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator *		
Poles	Nº	4
Winding connections (standard)		Star - serie
Frame mounting		SAE 0 - 18"
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Exciter system		Self-regulating Brushless
Voltage regulator		A.V.R (Electronic)
Steady voltage precision		within $\pm 1.5\%$ from no load to full loading with $\cos \phi = 0.8 \div 1$

*Alternator used meet the requirements of following Standard: BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359.



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Generating Set Installation Data		1,800 r.p.m.
EXHAUST SYSTEM		
Max. exhaust temperature at full load	° C	565
	° F	1049
Exhaust gas flow	m ³ /s	2.7
Maximum allowed back pressure	mbar	85
Recommended exhaust pipe size for L= 5 m	mm	-
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m ³ /min	63
	ft ³ /min	2,224.85
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	9.0
	CV	12.24
Minimum recommended battery capacity	Ah	-
Auxiliary voltage	Vcc.	24V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	77
FUEL TANK CAPACITY		
Open Skid Genset	L	999
Soundproofed	L	999

Generating Set transport data			
WEIGHT AND DIMENSIONS OPEN SKID GENSET			
Length	m - ft	4.2	- 13.77
Width	m - ft	1.6	- 5.24
Height	m - ft	2.23	- 7.31
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	14.98	- 527.45
Dry weight (with standard accessories)	kg - lb	5,600	- 12,320
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET			
Length	m - ft	6	- 19.6
Width	m - ft	1.9	- 6.23
Height	m - ft	2.3	- 7.54
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	26.22	- 920.69
Dry weight (with standard accessories)	kg - lb	7,400	- 16,280
Sound level at 7m	dB(A)	N/A	
WEIGHT AND DIMENSIONS SOUNDPROOFED CONTAINER 20'			
Length	m - ft	6.06	- 19.8
Width	m - ft	2.44	- 8
Height	m - ft	2.59	- 8.49
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	38.29	- 1,344.81
Dry weight (with standard accessories)	kg - lb	9,400	- 20,680
Sound level at 7m	dB(A)	70	