

X1850C

Engine MTU , 12V4000G23E
 Alternator LEROY SOMER , LSA512S55

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with vibration isolators
- Air cooler for wiring T° of 38/40°C max with electric fan
- Exhaust outlet with flexible and flanges
- 24 V charging alternator and starter
- Supplied with oil
- User manual and commissioning guide



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	1480 / 1850	1345 / 1682	2574	Length: 4050mm [159in]	11405kg [25137lbs] Net
400/230	1480 / 1850	1345 / 1682	2670	Width: 1885mm [74in]	11846kg [26109lbs] Gross
380/220	1480 / 1850	1345 / 1682	2811	Height: 2158mm [85in]	



POWER DEFINITION

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1 –

ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERM OF USE

Standard reference conditions N/A °C Air Intlet Temp, N/A m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

Type	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 EUR40SSI	79	69	Length: 12192mm [480in] Width: 2438mm [96in] Height: 2896mm [114in]	24337kg [53639lbs] Net 25714kg [56674lbs] Gross	500 L
 EUR40SI	85	75	Length: 12192mm [480in] Width: 2438mm [96in] Height: 2896mm [114in]	23303kg [51360lbs] Net 24680kg [54395lbs] Gross	500 L

ELEKTROMAK JENERATÖR
NK POWER MARMARA BAYİİ
 Jeneratör Alım Satım Kiralama Bobinaj ve Servis Hizmetleri

Merkez : Doğalpdere San.Sit.5 Ada No:27 İkitelli/İstanbul

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ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	MTU 12V4000G23E , 4-strokes, Turbo , Air/Water DC 12 X
	Cylinder Arrangement	V
	Displacement	57.24L [3493.0C.I.]
	Bore and Stroke	170mm [6.7in.] X 210mm [8.3in.]
	Compression ratio	16.5
	Rated RPM	1500 Rpm
	Piston Speed	10.5m/s [34.4ft./s]
	Max. stand by Power at rated RPM	1562kW [2093BHP]
	Frequency regulation, steady state	+/-0. 5%
	BMEP	19.9bar [288psi]
Governor : type	Elec	
EXHAUST SYSTEM	Exhaust temperature	470°C [878°F]
	Exhaust gas flow	5200L/s [11019cfm]
	Max back pressure	300mm CE [12in. WG]
FUEL SYSTEM	110% (Stand By power)	403L/h [106.5gal/hr]
	100% (of the Prime Power)	365L/h [96.4gal/hr]
	75% (of the Prime Power)	266L/h [70.3gal/hr]
	50% (of the Prime Power)	181L/h [47.8gal/hr]
	Max. fuel pump flow	1500L/h [396.3gal/hr]
OIL SYSTEM	Total oil capacity w/filters	260L [68.7gal]
	Oil Pressure low idle	3.5bar [50.7psi]
	Oil Pressure rated RPM	7bar [101.4psi]
	Oil consumption 100% load	1.825L/h [0.5gal/hr]
	Oil capacity carter	200L [52.8gal]
THERMAL BALANCE	Heat rejection to exhaust	N/A
	Radiated heat to ambient	75kW [4265Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	150mm CE [6in. WG]
	Engine air flow	2100L/s [4450cfm]
COOLANT SYSTEM	Radiator & engine capacity	N/A
	Max water temperature	104°C [219°F]
	Outlet water temperature	100°C [212°F]
	Fan power	N/A
	Fan air flow w/o restriction	N/A
	Available restriction on air flow	N/A
	Type of coolant	Coolelf mdx
	Thermostat	79/92 °C
EMISSIONS LEVEL	PM	N/A
	CO	N/A
	Nox	1700 mg/Nm3 Max
	HC	150 mg/Nm3 Max

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ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer / Type	LERROY SOMER LSA512S55
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	< 1000 m
	Overspeed	2250 rpm
	Pole : number	4
	Exciter type	AREP
	Insulation : class, temperature rise	H / H
	Voltage regulator	R449
	Sustained short circuit current	6 AC
	Total harmonics (TGH/THC)	< 4 %
	Wave form : NEMA = TIF – TGH/THC	< 50
	Wave form : CEI = FHT – TGH/THC	< 2 %
	Bearing : number	1
	Coupling	Direct
	Voltage regulation 0 to 100% load	+/- 1%
	Recovery time (20% Volt dip) ms	< 700 ms
	SkVA with 90% of nominal sustained voltage (at 0.4PF)	N/A
OTHER DATAS	Continuous nominal rating @ 40°C	1860 kVA
	Standby rating @ 27°C	1980 kVA
	Efficiencies @ 4/4 load	95.6 %
	Air flow	2.5m3/s [5297.18cfm]
	Short circuit ratio;50 (Kcc)	0.33
	Direct axis synchro reactance unsaturated (Xd)	374 %
	Quadra axis synchro reactance unsaturated (Xq)	224 %
	Open circuit time constant;50 (T'do)	2700 ms
	Direct axis transient reactance saturated (X'd)	33.4 %
	Short circuit transient time constant (T'd)	240 ms
	Direct axis subtransient reactance saturated (X''d)	14.8 %
	Subtransient time constant (T''d)	22 ms
	Quadra axis subtransient reactance saturated (X''q)	18.4 %
	Zero sequence reactance unsaturated (Xo)	3.5 %
	Negative sequence reactance saturated (X2)	16.6 %
	Armature time constant (Ta)	39 ms
	No load excitation current (io)	1.5 A
	Full load excitation current (ic)	N/A
	Full load excitation voltage (uc)	63 V
	Recovery time (Delta U = 20% transitoire)	< 700 ms
	Motor start (Delta = 20% perm. Or 50% trans.)	3600 kVA
	Transient dip (4/4 charge) – PF : 1.8 AR	12 %
No load losses	16kW [16.00Kw]	
Heat rejection	64.7 kW	

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CONTROL PANEL

Option

M80



Specifications :

Tachometer, Emergency stop button, client connection terminal strip, EC certified

Engine parameters :

Hours counter, Oil pressure gauge, Water temperature indicator, Oil pressure indicator

Option

TELYS



Specifications :

Frequency meter, Ammeter, Voltmeter

Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Option

KERYS



Specifications :

Frequency meter, Ammeter, Voltmeter

Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level
Additional specifications Website, Troubleshooting, Assistance and Maintenance, Plotting and logging, Load impact, 8 configurations available, Compliance with international standards...

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