



X2000

Engine MTU ,12V4000G63F Alternator LEROY SOMER ,LSA512S55

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with vibration isolators
- Air cooler for wiring T°of 47/50°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	1600 / 2000	1455 / 1818	2782	Length: 4050mm [159in]	11405kg [25137lbs] Net
400/230	1600 / 2000	1455 / 1818	2887	Width: 1885mm [74in]	11846kg [26109lbs] Gross
380/220	1600 / 2000	1455 / 1818	3039	Heigth: 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.

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

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





ENGINE SPECIFICATIONS

	MTU 12V4000G63F , 4-strokes, Turbo			
	Manufacturer / Model	Air/Water DC 12 X		
	Cylinder Arrangement	V		
	Displacement	57.24L [3493.0C.I.]		
	Bore and Stroke	170mm [6.7in.] X 210mm [8.3in.]		
STANDARD	Compression ratio	16.5		
	Rated RPM	1500 Rpm		
FEATURES	Piston Speed	10.5m/s [34.4ft./s]		
	Max. stand by Power at rated RPM	1733kW [2322BHP]		
	Frequency regulation, steady state	+/-0. 5%		
	BMEP	22bar [319psi]		
	Governor : type	Elec		
EXHAUST	Exhaust temperature	460°C [860°F]		
SYSTEM	Exhaust gas flow	4500L/s [9536cfm]		
	Max back pressure	300mm CE [12in. WG]		
	110% (Stand By power)	395L/h [104.4gal/hr]		
	100% (of the Prime Power)	353L/h [93.3gal/hr]		
FUEL SYSTEM	75% (of the Prime Power)	266L/h [70.3gal/hr]		
	50% (of the Prime Power)	184L/h [48.6gal/hr]		
	Max. fuel pump flow	1500L/h [396.3gal/hr]		
	Total oil capacity w/filters	260L [68.7gal]		
	Oil Pressure low idle	3.5bar [50.7psi]		
OIL SYSTEM	Oil Pressure rated RPM	7bar [101.4psi]		
	Oil consumption 100% load	1.77L/h [0.5gal/hr]		
	Oil capacity carter	200L [52.8gal]		
THERMAL	Heat rejection to exhaust	N/A		
BALANCE	Radiated heat to ambiant	75kW [4265Btu/mn]		
	Heat rejection to coolant	N/A		
AIR INTAKE	Max. intake restriction	150mm CE [6in. WG]		
	Engine air flow	1800L/s [3814cfm]		
	Radiator & engine capacity	N/A		
	Max water temperature	104°C [219°F]		
	Outlet water temperature	100°C [212°F]		
COOLANT SYSTEM	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		
	PM	N/A		
EMISSIONS	со	N/A		
LEVEL	Nox	N/A		
	HC	N/A		

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ALTERNATOR SPECIFICATIONS

	Manufacturer / Type	LEROY SOMER LSA512S55
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	< 1000 m
	Overspeed	2250 rpm
	Pole : number	4
	Exciter type	AREP
GENERAL	Insulation : class, temperature rise	Н / Н
	Voltage regulator	R449
DATAS	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	N/A
	0.4PF)	
	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
OTHER	Direct axis subtransient reactance saturated (X"d)	14.8 %
	Subtransient time constant (T"d)	22 ms
DATAS	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% transitione)	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...

ELEKTROMAK JENERATÖR

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