

X800K

Engine MTU , 12V2000G63E
Alternator LEROY SOMER , LSA491M6

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Exhaust compensators with flanges
- 24 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	640 / 800	582 / 727	1113		
400/230	640 / 800	582 / 727	1155	Leng : 3981mm [157in]	5241kg [11554lbs] Net
380/220	640 / 800	582 / 727	1216	Widt : 1630mm [64in]	5495kg [12114lbs] Gross
240 TRI	640 / 800	582 / 727	1925	Heig : 1950mm [77in]	
230 TRI	640 / 800	582 / 727	2008		
220 TRI	640 / 800	582 / 727	2100		





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.

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 ESP/PRP 27 C°/40 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

	Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	CIR20SSi	79	69	Leng : 6058mm [239in] Widt : 2438mm [96in] Heig : 2896mm [114in]	12732kg [28069lbs] 13244kg [29198lbs]	500 L
	CIR20SSi-R	79	69	Leng : 6058mm [239in] Widt : 2438mm [96in] Heig : 2896mm [114in]	12872kg [28378lbs] 14985kg [33036lbs]	2000 L
	ISO20	85	75	Leng : 6058mm [239in] Widt : 2438mm [96in] Heig : 2896mm [114in]	10181kg [22445lbs] 10877kg [23980lbs]	500 L
	M427	85.8	76	Leng : 6400mm [252in] Widt : 2170mm [85in] Heig : 2721mm [107in]	8036kg [17716lbs] 9220kg [20327lbs]	930 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	MTU 12V2000G63E , 4-temps, TURBO , AIR/AIR 12 X
	Cylinder arrangement	V
	Displacement (C.I.)	23.89
	Bore (mm) X Stroke (mm)	130 X 150
	Compression ratio	16 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	7.5
	Maximum stand-by power at rated RPM (kW)	652
	Frequency regulation (%)	0.5
	BMEP (bar)	19.99
	Governor type	ELEC
EXHAUST SYSTEM	Exhaust gas temperature (°F)	560
	Exhaust gas flow (L/s)	2420
	Max. exhaust back pressure (mm CE)	500
FUEL SYSTEM	Consumption @ 110% load (L/h)	175
	Consumption @ 100% load (L/h)	161
	Consumption @ 75% load (L/h)	119
	Consumption @ 50% load (L/h)	80
	Maximum fuel pump flow (L/hr)	450
OIL	Oil capacity (L)	82
	Min. oil pressure (bar)	4
	Max. oil pressure (bar)	6.5
	Oil consumption 100% load (L/h)	0.81
	Carter oil capacity (L)	67
THERMAL BALANCE	Heat rejection to exhaust (kW)	545
	Radiated heat to ambient (kW)	45
	Heat rejection to coolant (kW)	280
AIR INTAKE	AIR INTAKE_entree_max%	150
	Intake air flow (L/s)	940
COOLANT SYSTEM	Radiator & Engine capacity (L)	212
	Max water temperature (°C)	97
	Outlet water temperature (°C)	93
	Fan power (kW)	26
	Fan air flow w/o restriction (m3/s)	17.1
	Available restriction on air flow (mm CE)	20
	Type of coolant	COOLELF-MDX
	Thermostat (°C)	75-88
EMISSIONS	Emissions PM (g/kW.h)	N/A
	Emission CO (g/kW.h)	N/A
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	N/A

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ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA491M6
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	<1000
	Overspeed (rpm)	2250
	Number of pole	4
	Excitation system	AREP
	Insulation class / Temperature class	H / H
	Regulation	R448_LS/B
	Total harmonics TGH/THC	<4
	Wave form : NEMA=TIF-TGH/THC	<50
	Wave form : CEI=FHT-TGH/THC	<2
	Number of bearing	1
	Coupling	DIRECT
	Voltage regulation 0 à 100%	1
	Recovery time (Delta U = 20% transitoire) (ms)	1000
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	725
	Standby Rating 27°C (kVA)	800
	Efficiencies 4/4 load (%)	94.4
	Air flow (m3/s)	1
	Short circuit ratio (Kcc)	0.43
	Direct axis synchro reactance unsaturated (Xd) (%)	301
	Quadra axis synchro reactance unsaturated (Xq) (%)	180
	Open circuit time constant (T'do) (ms)	2047
	Direct axis transient reactance saturated (X'd) (%)	14.7
	Short circuit transient time constant (T'd) (ms)	100
	Direct axis subtransient reactance saturated (X''d) (%)	11.7
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	13.1
	Zero sequence reactance unsaturated (Xo) (%)	0.7
	Negative sequence reactance saturated (X2) (%)	12.5
	Armature time constant (Ta) (ms)	15
	No load excitation current (io) (ms)	0.9
	Full load excitation current (ic) (A)	3.2
	Full load excitation voltage (uc) (A)	38
	Recovery time (Delta U = 20% transitoire) (ms)	1000
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	1985
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	10.9
No load losses (kW)	9	
Heat rejection (kW)	32.7	

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CONTROL PANEL

Standard

M80



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



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



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...