



R1250C

Engine MTU , 18V2000G65E
 Alternator LEROY SOMER , LSA50.1S4

STANDARD FEATURES

- Connection terminal block "rental type"
- Bulk tank
- Water separator pre-filter
- Voltage adjustment
- Drainage pump
- Fork lift
- Battery isolating switch
- 3 track valves
- Emergency lighting/Shut-off valve
- Rental specific soundproofed contenergy



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps
415/240	880 / 1100	800 / 1000	1530



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 0 °C Air Intlet Temp, 0 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

Super Silent	Type	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	CIR20SSi	79	69	L: 6058mm [239in] an: 2438mm [96in] alt: 2590mm [114in]	14478kg [31919lbs] De Vacio 16699kg [36815lbs] En Func	1850 L
Silent	Type	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	ISO20	86	76	L: 6058mm [239in] an: 2438mm [96in] alt: 2896mm [114in]	13182kg [29061lbs] De Vacio 15227kg [33570lbs] En Func	1500 L



ENGINE SPECIFICATIONS

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STANDARD FEATURES	Manufacturer / Model	MTU 18V2000G65E , 4-strokes, Turbo , Air/Air 18 X
	Cylinder Arrangement	V
	Displacement	35.82L [2185.9C.I.]
	Bore and Stroke	150mm [5.9in.] X 130mm [5.1in.]
	Compression ratio	16
	Rated RPM	1500 Rpm
	Piston Speed	7.5m/s [24.6ft./s]
	Max. stand by Power at rated RPM	1100kW [1474BHP]
	Frequency regulation, steady state	+/-0. 5%
	BMEP	22.3bar [323psi]
Governor : type	Electronique	
EXHAUST SYSTEM	Exhaust gas flow	4200L/s [8900cfm]
	Exhaust temperature	525°C [977°F]
	Max back pressure	300mm CE [12in. WG]
FUEL SYSTEM	110% (Stand By power)	283L/h [74.8gal/hr]
	100% (of the Prime Power)	260L/h [68.7gal/hr]
	75% (of the Prime Power)	192L/h [50.7gal/hr]
	50% (of the Prime Power)	130L/h [34.3gal/hr]
	Max. fuel pump flow	600L/h [158.5gal/hr]
OIL SYSTEM	Total oil capacity w/filters	130L [34.3gal]
	Oil Pressure low idle	4.7bar [68.1psi]
	Oil Pressure rated RPM	7.5bar [108.7psi]
	Oil consumption 100% load	2.6L/h [0.6869gal/hr]
	Oil capacity carter	110L [29.1gal]
THERMAL BALANCE	Heat rejection to exhaust	N/A
	Radiated heat to ambient	50kW [2843Btu/mn]
	Heat rejection to coolant	440kW [25018Btu/mn]
AIR INTAKE	Max. intake restriction	150mm CE [6in. WG]
	Engine air flow	1800L/s [3814cfm]
COOLANT SYSTEM	Radiator & engine capacity	N/A
	Max water temperature	102°C [216°F]
	Outlet water temperature	95°C [203°F]
	Fan power	40 kW
	Fan air flow w/o restriction	24.5m ³ /s [51918cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	
Thermostat	°C	
GAS SYSTEM	HC	N/A
	CO	300 mg/Nm ³
	Nox	1500 mg/Nm ³
	PM	20 mg/Nm ³



ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer / Type	LEROY SOMER LSA50.1S4
	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	4.85 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	< 500 ms
SkVA with 90% of nominal sustained voltage (at 0.4PF)	skva	
OTHER DATAS	Continuous nominal rating @ 40°C	1025 kVA
	Standby rating @ 27°C	1130 kVA
	Efficiencies @ 4/4 load	94.5 %
	Air flow	1.6m ³ /s [3390.19cfm]
	Short circuit ratio;50 (Kcc)	0.34
	Direct axis synchro reactance unsaturated (Xd)	381 %
	Quadra axis synchro reactance unsaturated (Xq)	229 %
	Open circuit time constant;50 (T'do)	2350 ms
	Direct axis transient reactance saturated (X'd)	28.2 %
	Short circuit transient time constant (T'd)	205 ms
	Direct axis subtransient reactance saturated (X''d)	15.5 %
	Subtransient time constant (T''d)	17 ms
	Quadra axis subtransient reactance saturated (X''q)	19.5 %
	Zero sequence reactance unsaturated (Xo)	3.7 %
	Negative sequence reactance saturated (X2)	17.5 %
	Armature time constant (Ta)	36 ms
	No load excitation current (io)	1.05 A
	Full load excitation current (ic)	ic
	Full load excitation voltage (uc)	61 V
	Recovery time (Delta U = 20% transitoire)	< 500 ms
	Motor start (Delta = 20% perm. Or 50% trans.)	2000 kVA
	Transient dip (4/4 charge) – PF : 1.8 AR	14 %
No load losses	12.7kW [12.70Kw]	
Heat rejection	47.7 kW	

CONTROL PANEL

Standard



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...