

# J400U

Engine N/A , N/A  
Alternator LEROY SOMER , LSA472VS3

## STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Power circuit breaker
- Radiator for wiring T° of N/A max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 24 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
480/277	400 / 500	364 / 455	601	Length: 3160mm [124in] Width: 1340mm [53in] Height: 1790mm [70in]	3120kg [6878 lbs] Net 3600kg [7937 lbs] Gross
440/254	400 / 500	364 / 455	656		
380/220	400 / 500	364 / 455	760		
230/115	380 / 475	345 / 432	1192		
220/127	400 / 500	364 / 455	1312		
208/120	400 / 500	364 / 455	1388		
600/347	400 / 500	364 / 455	481		



## 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 °C Air Intlet Temp, 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
 M228	81.1	71	Length: 4475mm [176in] Width: 1410mm [56in] Height: 2430mm [96in]	4250kg [9370lbs] Net 4730kg [10428lbs] Gross	470 L
 M228-DW	81.1	71	Length: 4527mm [178in] Width: 1410mm [56in] Height: 2700mm [106in]	4851kg [10695lbs] Net 6129kg [13512lbs] Gross	1368 L





## ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	N/AN/A , 4-strokes, N/A , N/A N/A X
	Cylinder Arrangement	N/A
	Displacement	N/A
	Bore and Stroke	N/A X N/A
	Compression ratio	N/A
	Rated RPM	N/A
	Piston Speed	N/A
	Max. stand by Power at rated RPM	N/A
	Frequency regulation, steady state	N/A
	BMEP	N/A
Governor : type	N/A	
EXHAUST SYSTEM	Exhaust temperature	N/A
	Exhaust gas flow	N/A
	Max back pressure	N/A
FUEL SYSTEM	110% (Stand By power )	N/A
	100% (of the Prime Power)	N/A
	75% (of the Prime Power)	N/A
	50% (of the Prime Power)	N/A
	Max. fuel pump flow	N/A
OIL SYSTEM	Total oil capacity w/filters	N/A
	Oil Pressure low idle	N/A
	Oil Pressure rated RPM	N/A
	Oil consumption 100% load	N/A
	Oil capacity carter	N/A
THERMAL BALANCE	Heat rejection to exhaust	N/A
	Radiated heat to ambient	N/A
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	N/A
	Engine air flow	N/A
COOLANT SYSTEM	Radiator & engine capacity	N/A
	Max water temperature	N/A
	Outlet water temperature	N/A
	Fan power	N/A
	Fan air flow w/o restriction	N/A
	Available restriction on air flow	N/A
	Type of coolant	N/A
	Thermostat	N/A
EMISSIONS LEVEL	PM	N/A
	CO	N/A
	Nox	N/A
	HC	N/A

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## ALTERNATOR SPECIFICATIONS

GENERAL  DATAS	Manufacturer	LEROY SOMER
	Type	LSA472VS3
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	< 1000 m
	Overspeed	2250 rpm
	Pole : number	4
	Exciter type	SHUNT
	Insulation : class, temperature rise	H / H
	Voltage regulator	R230
	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	+/- 0.5%
Recovery time (20% Volt dip) ms	500 ms	
SKVA with 90% of nominal sustained voltage (at 0.4PF)	N/A	
OTHER  DATAS	Continuous nominal rating @ 40°C	466 kVA
	Standby rating @ 27°C	545 kVA
	Efficiencies @ 4/4 load	93.3 %
	Air flow	1.1m3/s [2330.76cfm]
	Short circuit ratio;50 (Kcc)	0.29
	Direct axis synchro reactance unsaturated (Xd)	405 %
	Quadra axis synchro reactance unsaturated (Xq)	243 %
	Open circuit time constant;50 (T'do)	1771 ms
	Direct axis transient reactance saturated (X'd)	22.8 %
	Short circuit transient time constant (T'd)	100 ms
	Direct axis subtransient reactance saturated (X''d)	18.3 %
	Subtransient time constant (T''d)	10 ms
	Quadra axis subtransient reactance saturated (X''q)	24.7 %
	Zero sequence reactance unsaturated (Xo)	1 %
	Negative sequence reactance saturated (X2)	21.5 %
	Armature time constant (Ta)	15 ms
	No load excitation current (io)	0.9 A
	Full load excitation current (ic)	4 A
	Full load excitation voltage (uc)	40 V
	Recovery time (Delta U = 20% transitoire)	500 ms
	Motor start (Delta = 20% perm. Or 50% trans.)	973 kVA
	Transient dip (4/4 charge) – PF : 1.8 AR	18.5 %
No load losses	8.15 kW	
Heat rejection	28.18 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

