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- Leroy-Somer AREP (TS26-S004) Alternator
- Four-pole circuit breaker
- Connection terminal box rental type
- Containment fuel tank and large autonomy
- Forks and frame protection pads
- Battery isolating switch
- Heavy duty air filter with interchangeable cartridge
- Access door to the radiator
- Electronic governor with speed adjustement

Full Additionnal Equipment

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

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Engine	4045HF120
Alternator	LSA 44.2 VS45
Canopy Type	M3129 DW
Performance class	G3

Standard features	
Frequency (Hz)	50
Voltage value	400
Max power ESP (kVA)	110
Max power ESP (kWe)	88
Max power PRP (kVA)	100
Max power PRP (kWe)	80
Intensity (A)	159
Standard Control Panel	DEC1000
Optional control panel	DEC4000

Full Version Dimension	
Length (mm).	2860
Width (mm).	1191
Height (mm).	2000
Dry weight (kg).	2140
Tank capacity (L).	527
Autonomy @ 75% of load (h)	22.9
Autonomy @ 50% of load (h)	N/A

Basic Version Dimension	
Length (mm).	2860
Width (mm).	1191
Height (mm).	2000
Dry weight (kg).	2140
Tank capacity (L).	527
Autonomy @ 75% of load (h)	10
Autonomy @ 50% of load (h)	N/A

Sound level	
Acoustic pressure level @1m in dB(A)	N/A
Acoustic pressure level @7m in dB(A)	N/A
Acoustic pressure level @15m in dB(A)	N/A
Sound power level guaranteed (Lwa)	N/A

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Engine specifications

General Data	
Engine	N/A 4045HF120
Cylinder arrangement	L
Number of cylinders	4
Displacement (C.I.)	4.48
Bore (mm) x Stroke (mm)	106 x 127
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.35
Maximum stand-by power at rated RPM (kW)	100
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	16.24
Governor type	Mechanical

Coolant system	
Radiator & Engine capacity (L)	20.2
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	2.5
Fan air flow w/o restriction (m3/s)	3.7
Available restriction on air flow (mm EC)	20
Type of coolant	Glycol- Ethylene
Thermostat (°C)	82-94

Emissions	
Emission PM (g/kW.h)	N/A
Emission CO (g/kW.h)	N/A
Emission HCNOx (g/kWh)	N/A
Emission HC (g/kW.h)	N/A

Exhaust system	
Exhaust gas flow (L/s)	283
Exhaust gas temperature (°C)	545
Max. exhaust back pressure (mm EC)	750
Fuel system	
Consumption @ 110% load (L/h)	25.5
Consumption @ 100% load (L/h)	23.5
Consumption @ 75% load (L/h)	16.5
Consumption @ 50% load (L/h)	11.5
Maximum fuel pump flow (L/h)	108
Oil	
Oil capacity (L)	13.5
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.024
Carter oil capacity (L)	12.5
Energy Balance Sheet	
Heat rejection to exhaust (kW)	64
Radiated heat to ambiant (kW)	10.5
Haet rejection to coolant (kW)	36
Air intake	
Max. intake restriction (mm EC)	625
Intake air flow (L/s)	106

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Alternator specifications

General Data	
Alternator	N/A LSA 44.2 VS45
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	AREP
Insulation class	Н
AVR	R438
Harmonic factor, no load TGH/THC (%)	<2
Wave form : NEMA=TIF-(TGH/THC)	<50
Wave form : CEI=FHT-(TGH/THC)	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 0.5%
Recovery time (Delta U = 20% transcient) (ms)	500 ms

Other datas	
Continuous Nominal Rating 40°C (kVA)	105
Standby Rating 27°C (kVA)	116
Efficiencies 4/4 load (%)	90.8
Air flow (m3/s)	0.37
Short circuit ratio (Kcc)	0.35
Direct axis synchro reactance unsaturated (Xd) (%)	362
Quadra axis synchro reactance unsaturated (Xq) (%)	217
Open circuit time constant (T"do) (ms)	2555
Direct axis transcient reactance saturated (X"d) (%)	14.1
Short circuit transcient time constant (T"d) (ms)	100
Direct axis subtranscient reactance saturated (X""d) (%)	8.5
Subtranscient time constant (T""d) (ms)	10
Quadra axis subtranscient reactance saturated (X""q) (%)	10.4
Zero sequence reactance unsaturated (Xo) (%)	0.5
Negative sequence reactance saturated (X2) (%)	9.5
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	4.2
Full load excitation voltage (uc) (V)	19
Recovery time (Delta U = 20% transcient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	227.9
Transcient dip (4/4 load) - PF: 0,8 AR (%)	14.3
No load losses (W)	1800
Heat rejection (W)	8500

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Control Panel

DEC1000, comprehensive and simple

DEC4000, ergonomic and user-friendly



The DEC1000 is a versatile control unit allowing The highly versatile DEC4000 control unit is complex yet accessible, thanks to the particular attention paid operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly DEC1000 offers to optimising its ergonomics and ease of use. With its

Offers the following functions:

Standard electrical measurements: voltmeter, frequency meter, ammeter.

high-quality basic functions to guarantee simple,

reliable operation of your generating set.

Engine parameters: working hours counter, engine speed, battery voltage, fuel level, oil pressure, coolant temperature.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed (> 60 kVA), charging alternator fault, low fuel level, emergency stop.

Automatic control: automatic start.

For more information, please refer to the sales documentation.



It offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

large display screen, buttons and scroll wheel, it

places the accent on simplicity and communication.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

Communication: remote control and operation software. USB connections. PC connection.

Automatic control: automatic start.

For more information on the product and its options, please refer to the sales documentation.