ATP Baudouin - Leroy Somer Series

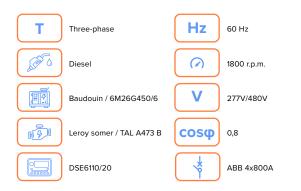
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ATP563-BDN/LS

Main Features



Standby Power (STP)	563 kVA	450 kW
Continuous Power (PRP)	500 kVA	400 kW
Continuous Power (COP)	- kVA	- kW

Soundproof

Length (L)	3700 mm		
Height (H)	1700 mm		
Width (W)	2230 mm	I I I I I I I I I I I I I I I I I I I	
Weight	4100 kg		
Daily deposit	850	WL	
	60Hz		
Diesel engine	119.3 dB(A)		
Noise test performed at 100% of ESP power, at a distance of 1 m, with the engine without a radiator, without a cooling fan, and without a silencer.			

Installation in room

Exhaust System	50Hz		
	COP	PRP	STP
Max. exhaust temperature after turbocharger (°C)	-	-	580
Exhaust gas flow (m ³ /sec)	-	2,16	2,38
Heat dissipated (kW)	-	-	-
Max. bending moment of the exhaust outlet flange (Nm)		10	
Max. exhaust pipe diameter (mm)		200	
Max. exhaust pressure (Bar)		0,075	

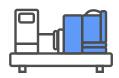
Fuel System	60Hz		
	COP	PRP	STP
Maximum restriction on lift pump (KBar)	-	-	0,15
Maximum fuel inlet temperature (°C)		0,13	
Total drainage flow (L/hr)			45

Electrical system	60Hz		
	COP	PRP	STP
Electrical system voltage (Vdc)		24	
Starting power (kW)	8,5		
Max. electrical resistance of the starting circuit $\left(\Omega\right)$		0,002	
Min. wire cross-sectional area (mm²)		70	
Battery charger current (A)		55	



Engine specifications

General specifications	60 Hz
Model	6M26G450/6
Emissions	Not applicable
Operating method	Four Times
Fuel type	Diesel
Refrigeration system	Liquid (water + 50% antifreeze)
Suction system	Turbocharged
Injection system	Mechanical Pump
Number and arrangement of cylinders	V6
Displacement (I)	15,90
Cylinder diameter (mm)	150
Cylinder stroke (mm)	150
Compression ratio	15.7:1
Regulation	Electronic
Rotational speed	1800
Refrigerant capacity (L)	55
Gross power COP (kWm)	404
Gross power PRP (kWm)	505
STP gross power (kWm)	556
Oil capacity (L)	110,7
Net power COP (kWm)	-
Net PRP power (kWm)	-
STP net power (kWm)	-



Consumptions		60Hz		
Fuel consumption	Burden	lt/h	g/kWh	
STP	100%	126	209,2	
	100%	112,9	206,1	
000	75%	84,1	204,8	
PRP	50%	58	211,9	
	25%	33	241,1	
Min. Allowable fuel	flow to fuel pump (L/h)	240		
Reference conditions				
Temperature (°C)		25		
Atmospheric tempera	ature (kPa)	100		
Starting system				
Voltage (V)		24		
Standard thermostat	range (°C)	77-87		

Alternator specifications

General specifications		
Model	TAL A473 B	
Number of phases	Three-phase	
Protection	IP23	
Isolation	н	
Heating	н	
IEC Waveform = THF	<2,0%	
NEMA Waveform = TIF	<50	
Excitation system	SHUNT	
AVR Model	R150	



Overspeed: rpm	2250
Voltage regulation: (steady state)	+/- 0.8%
Air flow rate 60 Hz (m3/s)	1,1
Radio interference:	Deletion in accordance with the standard European EN61000-6
AREP+ Short circuit current	2.7 ln: 5 seg.

Batería de arranque

- Channelling	Battery voltage	12V
+ -	Battery Capacity	
	Amount	
	Battery type	Maintenance free, sealed lead-acid type

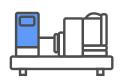
Certifications





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Control Panel





Generator	DSE6110/20
Tension (F-F / F-N)	*/*
Intensity	*
Frequency	*
RMS values	*
Generator phase sequence	*
Generator ground current [1]	*
Number of events registered	250
Integrated clock	*
PIN protection	*
kWh, kVAr, kVAh, kVArh, cos Ø	*
Synchronoscope (m)	
Number of available departures [2]	6
Engine running hours	*
Alarm i ndication on LCD	*
Total number of LED indicators	8
No. of LED alarms	
Acoustic alarm signaling	
Programmer	*
Fuel level	*
Engine	DSE6110/20
Engine speed	*
Low oil pressure protection	*
Oil pressure reading [3]	
High engine temperature protection	*
Engine temperature reading[3]	
Battery voltage	*
Battery Intensification [4]	
Fuel consumption [5]	*
Low water level in radiator [6]	
Scheduled maintenance for engine	*
Communication	DSE6110/20
USB Type B Female Port (Max. 6m)	*
[7] USB Type A Female Port (n)	
CAN port (Max. 40m)	*
PLC function	*

Grid	DSE6110/20
Tension (F-F / F-N)	*
	× (X)
Intensity [1]	*
Frequency kVA.kW, cos Ø (a)	
	*
Network-group switching control	
Protections and alarms	DSE6110/20
High/low battery voltage	-
Battery charging alternator failure	<u> </u>
Stop failure	₽/⊗
Boot failure	₽/⊗
Low fuel level	₽/⊗
Overload	₽/⊗
Ground fault	\bigcirc / \odot
Asymmetry between phases	\bigcirc / \otimes
Maintenance	\mathcal{P} / \otimes
High/Low Generator Frequency	\mathcal{Q} / \otimes
Engine overspeed	\mathcal{P} / \otimes
Low engine speed	\mathcal{Q} / \otimes
Surge	\mathcal{P} / \otimes
Low voltage in generator	\mathcal{P} / \otimes
ECU Alert (if applicable)	\mathcal{P} / \otimes
Low oil pressure	\mathcal{P} / \otimes
Low water I evel in radiator [f]	\ominus / \otimes
High engine temperature	\mathcal{Q} / \otimes
Fuel leak/theft	¢
Aplications	DSE6110/20
Automatic or manual start	*
Remote start by dry contact NA	*
Automatic due to network failure	*
Alternation with distributed time	X
Multi-generators in synchronism with load (Max 32 generators) (m)	X
Generator-grid i n synchronism and with load sharing (1 generator and 1 grid) (m)	X
Optional Expansions	DSE6110/20
DSE2130 (8 digital inputs) I G-IOM (8 digital inputs/outputs + 4 analog inputs) G-08 (8 ent. dig.)	*
DSE2157 I -RB8 G-06 (8 relay outputs)	*
DSE2548 IGL-RA15 - (expansion with 8 Additional LEDs	*
DSE2510/20 (mirror controller, max distance 1km)	*
Rules	
Working temperature	-30 -> 70°C
Protection index (when mounted with sealing gasket)	IP65
Maximum humidity level (for 48 h)	93% / 40°C



Legend

*	Available	[4]	Needs an additional ammeter
-	Optional	[5]	If the information is provided by the engine ECU
X	Not available	[6]	Requires an additional sensor
Q	Warning alarm	[7]	Need to include an additional IL-NT-S-USB module
\otimes	Stop alarm	[8]	Need to include an additional IL-NT-RS232-485 module
[1]	Need an additional IT	[9]	DeepSea: Needs to include an additional DSE891 module/ComAp: Needs to include an additional IB-LITE module
[2]	Number of outputs available for standard configuration. Outputs do not include relays or additional wiring to terminals.	[10]	DeepSea: Needs to include an additional DSE890 module/ComAp: Needs to include an additional IL-NT-GPRS module
[3]	If the information is not provided by the engine ECU, an additional sensor needs to be included.	[11]	DeepSea: Needs to include an additional DSE892 module/ComAp: Needs to include an additional IB-LITE module

Emergency Standby Power (ESP)

Emergency standby power is the maximum power available to a variable load during a main power grid failure. The average load factor over 24 hours of operation must not exceed 70% of the motor's ESP rated power. Typical motor operating hours are 200 hours per year, with a maximum usage of 500 hours per year.

This includes an annual maximum of 25 hours per year at the ESP power rating. Overload capability is not permitted. The motor must not be used for sustained utility parallel applications.

Main Power (PRP)

Prime Power is the maximum power available for unlimited hours of use in a variable load application. The average load factor must not exceed 70% of the motor's PRP rating during any 24-hour period. A 10% overload capability is available; however, it is limited to 1 hour within each 12-hour period.

- 1. All ratings are based on operating conditions according to ISO 8528-1, ISO 3046, DIN6271. Performance tolerance ±5%.
- 2. Test conditions: 100 kPa, 25°C air inlet temperature, 30% relative humidity, with fuel density of 0.84 kg/L. Derating may be required for conditions outside these, contact factory for details.
- 3. Power output curves are based on engine operation with fuel system, water pump and lubricating oil pump; battery charging alternator, fan and optional equipment are not included.



