# ATP Baudouin - Leroy Somer Series

# 

	TLANTIC OWERenergy		OWEI
•		^	🖗 ATLANTIC POWE
<u>A</u>		-	*ATLA
C C		1	

# ATP1250-BDN/LS

#### **Main Features**



Standby Power (STP)	1250 kVA	1000 kW
Continuous Power (PRP)	1138 kVA	910 kW
Continuous Power (COP)	- kVA	- kW

#### Soundproof

Length (L)	3700 mm		
Height (H)	1700 mm		
Width (W)	2230 mm		
Weight	4100 kg		
Daily deposit	850	WL	
	60Hz		
Diesel engine	122 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)	-	-	550
Exhaust gas flow (m³/sec)	-	279,5	307,5
Heat dissipated (kW)	-	-	-
Max. bending moment of the exhaust outlet flange (Nm)		10	
Max. exhaust pipe diameter (mm)	200		
Max. exhaust pressure (mBar)		75	

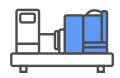
Fuel System	60Hz		
	COP	PRP	STP
Maximum restriction on lift pump (KBar)	-	-	0,5
Maximum fuel inlet temperature (°C)		0,5	
Total drainage flow (L/hr)			50

Electrical system	60Hz		
	COP	PRP	STP
Electrical system voltage (Vdc)		24	
Starting power (kW)	10		
Max. electrical resistance of the starting circuit $(\boldsymbol{\Omega})$		0,008	
Min. wire cross-sectional area (mm <sup>2</sup> )		95	
Battery charger current (A)		55	



### **Engine specifications**

General specifications	60 Hz
Model	12M26G1000/6
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	V12
Displacement (I)	31,8
Cylinder diameter (mm)	150
Cylinder stroke (mm)	150
Compression ratio	15.7:1
Regulation	Electronic
Rotational speed	1800
Refrigerant capacity (L)	114
Gross power COP (kWm)	-
Gross power PRP (kWm)	1014
STP gross power (kWm)	1115
Oil capacity (L)	154
Net power COP (kWm)	-
Net PRP power (kWm)	966
STP net power (kWm)	1067



Con	sumptions	60Hz	
Fuel consumption	Burden	lt/h	g/kWh
STP	100%	290,1	218,5
	100%	259,5	215
000	75%	190,9	210,9
PRP	50%	131,8	218,4
	25%	75,4	249,7
Min. Allowable fuel	flow to fuel pump (L/h)	650	
Reference conditions			
Temperature (°C)		25	
Atmospheric temperature (kPa)		100	
Starting system			
Voltage (V)		24	
Standard thermostat	range (°C)	77-87	

### **Alternator specifications**

General specifications	
Model	TAL A49 D
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

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

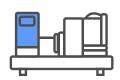
### Certifications





www.atlanticpowerenergy.com Copyright © 2021 Atlantic Power Energy - All rights reserved

#### **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	$\varphi$ / $\otimes$
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.



