ATP Baudouin - Leroy Somer Series

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A .	-41	💣 ATLANTIC POWER
		C POW

ATP440-BDN/LS

Main Features



Standby Power (STP)	440 kVA	352 kW	
Continuous Power (PRP)	400 kVA	320 kW	
Continuous Power (COP)	- kVA	- kW	

Soundproof

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Length (L)	3800 mm	
Height (H)	2273 mm	
Width (W)	1650 mm	
Weight	3800 kg	
Daily deposit	400 L	WL
	50Hz	
Sound pressure I	79 +/- 3 dB(A)	
Sound pressure l	66 +/- 3 dB(A)	

Installation in room

Exhaust System		50Hz	
	COP	PRP	STP
Max. Exhaust Temperature After Turbocharger (°C)	-	-	580
Exhaust Gas Flow (m ³ /min)	-	63	69
Max. Exhaust Backpressure (mBar)		120	
Max. Bending Moment of the Exhaust Outlet Flange (Nm)		19	
Outlet Diameter (mm)	100		

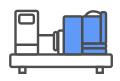
Ventilation System	50Hz		
	COP	PRP	STP
Recommended Airflow (m ³ /min)	-	25	26,7
Min. Intake Pipe Diameter (mm)			100
Intake Air Temperature Rise (°C)			≤15

Radiation Heat	50Hz		
	COP	PRP	STP
Total Heat Dissipation (kJ/s)	-	-	554,7
Heat Radiated to the Environment (kJ/s)	-	-	-



Engine specifications

General specifications	50 Hz
Model	6M21G440/5
Emissions	Not applicable
Performance Grade	G2
Operating Method	Four-stroke
Fuel Type	Diesel
Cooling System	Liquid (water + 50% antifreeze)
Aspiration System	Turbocharged and aftercooled
Injection System	Direct
Number and Arrangement of Cylinders	V6
Displacement (L)	12,54
Cylinder diameter (mm)	127
Cylinder stroke (mm)	165
Compression ratio	17:1
Regulation	Electrónica
Rotation speed	1500
Piston speed (m/s)	8,25
Gross power COP (kWm)	-
Gross power PRP (kWm)	368
Gross power STP (kWm)	405
Fan power supply (kW)	21
Net power COP (kWm)	-
Net power PRP (kWm)	345
Net power STP (kWm)	382



Consumptions		50Hz		
Fuel consumption	Burden	lt/h	g/kWh	
STP	100%	94,9	196,7	
	100%	85	195,1	
PRP	75%	63,5	193,4	
	50%	43,1	197,1	
	-	-	-	
COP	-	-	-	
	-	-	-	
Fuel Consumption To	lerance	+3%		
Reference condition				
Temperature (°C)		25		
Atmospheric tempera	ature (kPa)	100		
Capacity				
Coolant Capacity (L)		9,4		
Low / high oil capacit	y (L)	27/30		
Starting system				
Voltage (V)		24		
Power (kW)		5,4		
Battery (Ah)		80		

Alternator specifications

General specifications		
Model	TAL-A473-A	
Number of Phases	Three-phase	
Protection	IP23	
Insulation	н	
Heating	н	
Telephone R.F.I interference 50 Hz	THF<2%	
Telephone R.F.I interference 60 Hz	TIF<50	
Coupling	Flex plate	
Support	Monopalier	



No-load waveform distortion	< 1,5%
Load waveform distortion	< 5%
Number of windings	6
Excitation (standard / option)	SHUNT / AREP
AVR Model (standard / option)	R120 / R180
Voltage Regulation (standard / option)	± 0,8 % / ± 0,5 %

Starter Battery

-	Battery voltage	12V
+ -	Battery Capacity	80aH
	Amount	2 pieces
	Battery type	Maintenance-free, sealed lead-acid type

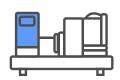
Certifications





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Control Panel





Tension (F-F / F-N)IntensityIntensityFrequencyRMS valuesGenerator phase sequenceGenerator ground current [1]Number of events registeredIntegrated clockPIN protectionKWh, kVAr, KVAh, kos ØSynchronoscope (m)Number of available departures [2]Engine running hoursAarn indication on LCDNo of LED laidnesAcoustic alarm signalingYord for available departures [2]No of LED alarmsAcoustic alarm signalingProgrammerFuel level*Coustic alarm signalingYou oil pressure protectionGin pressure protectionBattery Intensification [3]Battery Intensification [4]Suchedule maintenance for engineAurout folsSuchedule maintenance for engineFuenal USB Type Aport (Max. Sm [7]Suchedules RTU Protocol [8]Suchedules RTU Protocol [9]Suchedules RTU Protocol [9]Suchedules RTU Protocol [9]Such AutoroSuch AutoroSuch AutoroSuch AutoroSuch AutoroSuch AutoroSuch AutoroSuch AutoroSuch Autoro<	Generator	7320
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Fuel consumption [5] (************************************	Battery voltage	*
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RJ45 Ethernet port [9] Image: Comparison of the system o	RS232 port (Max. 15m) (n)	*
GSM and/or GPS [10] Image: Comparison of the sector of t	RS485 port (Max. 1.2 km) [8]	*
ModBus RTU Protocol [8] * ModBus RCP Protocol [9] Image: Comparison of the sector of	RJ45 Ethernet port [9]	
ModBus RCP Protocol [9] Image: Colored state sta	GSM and/or GPS [10]	
SNMP Protocol [11] Image: mail of the second s	ModBus RTU Protocol [8]	*
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	CAN port (Max. 40m)	*
PLC function	MSC port (Max. 240m) (m)	X
	PLC function	*

	7000		
Grid	7320		
Tension (F-F / F-N)	*/*		
Intensity [1]	*		
Frequency			
kVA,kW, cos Ø (a) Network-group switching control	*		
Protections and alarms	7320		
High/low battery voltage	φ		
Battery charging alternator failure	ф Ф		
	÷ 		
Stop failure	-		
Boot failure	\$/⊗		
Low fuel level	₽/⊗		
Overload	₽/⊗		
Ground fault	₽/⊗		
Asymmetry between phases	₽/⊗		
Maintenance	₽/⊗		
High/Low Generator Frequency	₽/⊗		
Engine overspeed	\mathcal{P} / \otimes		
Low engine speed	₽/⊗		
Surge	\mathcal{P} / \otimes		
Low voltage in generator	₽/⊗		
ECU Alert (if applicable)	\oplus / \otimes		
Low oil pressure	\mathcal{Q} / \otimes		
Low water I evel in radiator [f]	\bigcirc / \odot		
High engine temperature	\bigcirc / \odot		
Fuel leak/theft	Q		
Aplications	7320		
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	7320		
DSE2130 (8 digital inputs) IG-IOM (8 in./out. digital + 4 analog inputs) G-08 (8 digital inputs)	*		
DSE2157 I-RB8 G-06 (8 relay outputs)	*		
DSE890 IL-NT-GPRS G-GSM (GSM and/or GPS)	*		
DSE891 IB-LITE G-ETH (Ethernet module)	*		
DSE892 IB-LITE - (Ethernet module according to SNMP protocol)			
DSE2548 IGL-RA15 - (expansion with 8 additional LEDs)			
DSE2510/20 (mirror controller, maximum distance of 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
⊗	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.

