

Engine Perkins 1106A-70TAG2	Alternator Leroy Somer TAL-A44-K	Generator Model AFB150-P / Open
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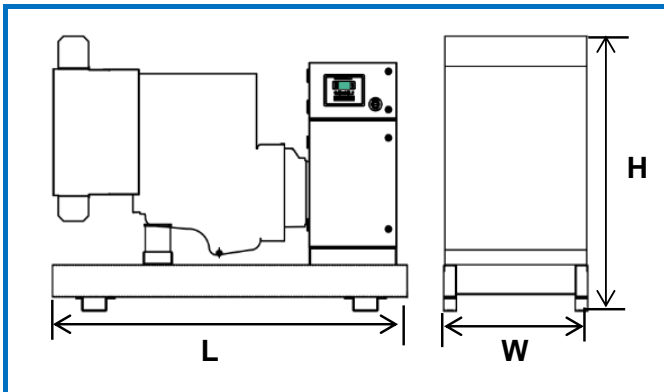


Power

Voltage (V)	50Hz/1500rpm		3-Phase		Factor Cos $\Phi = 0.8$	
	Prime (PRP) kWe / kVA	Standby (ESP) kWe / kVA	Rated Current Amps	Emissions	Fuel Consumption @100% Load L/h	
380/220	120 / 150	132 / 165	227.9			
400/230	120 / 150	132 / 165	216.5	N/A	33.4	
415/240	120 / 150	132 / 165	208.7			

Key Features:

- High efficient water cooled diesel engine.
- Single bearing with brushless alternators (Class H, with AVR).
- Radiator with pressure cap and drain point.
- Fully guarded engine-driven fan.
- Fully welded steel skid base with lifting holes and fork lift legs.
- Integral fuel tank with filler cap and gauge ($\leq 650\text{kVA}$).
- Heavy duty rubber anti-vibration mountings.
- 12V or 24V maintenance free starter battery and connecting cables.
- Separate engine-driven battery charging alternator.
- Spin on oil and fuel filters and dry type air filter element.
- Industrial silencer (15dBA reduction) supplied loose.
- Auto start control system with LCD show.
- Battery charger provided.
- Main line 3P circuit breaker.
- Rigorous factory test wiring with IEC standard.
- Operation & Maintenance manual & Wiring diagrams.
- Wide range of optional extra features available.



Overall Dimensions & Weights

Length (L)	mm	2250
Width (W)	mm	820
Height (H)	mm	1450
Dry Weigh	kg	1150

Standard

- ◆ The baseframe acts as a fuel tank with a level gauge, plugs and loading / unloading forklift points.
- ◆ Highly efficient anti-vibration mounts are placed between the engine / alternator and baseframe
- ◆ Fuel filter
- ◆ Exhaust silencer
- ◆ Flexible bellows and engine gasket
- ◆ Maintenance free battery
- ◆ Mounted battery charger
- ◆ Fully guarded fan

Optional

- ▲ Fuel system set-up with quick release fittings (for auxiliary, external tank connection)
- ▼ Engine oil extraction pump
- ▼ External sockets
- ▼ Oversized fuel tank
- ▲ ATS panel (Automatic Transfer Switch)
- ▲ 220V/240V electric sockets or jacket water heater
- ▼ Residential silencer
- ▲ Sound attenuated canopy or containerised enclosure
- ▼ Radiator coolant level sensor
- ▲ Tropical radiator
- ▼ PMG

Remark:

Ratings: All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor.

Prime Power: Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year accordance with ISO8528-1, and an overload of 10% permitted to hour in every twelve hours of operation in accordance with ISO 3046-1.

Standby Power: Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27°C.

Alanta Power reserves the right to change the design or specifications without notice and without any obligation or liability.

Engine		Perkins 1106A-70TAG2			
		Units	Prime	Standby	
General Performance	Frequency	Hz	50		
	Engine Speed	r/min	1500		
	Cylinders / Type		6 cyl /In-line / 4-stroke		
	Aspiration		Turbocharged and air charge cooled		
	Governor Type		Mechanical Governor		
	Bore / Stroke	mm	105/135		
	Displacement	Litres	7.01		
	Compression Ratio		16:1		
	Engine Power (Net)	kWm	131	144	
	Combustion Air Flow	m ³ /min	10.02	10.67	
	Brake Mean Effective Pressure	kPa	1552.1	1752.9	
Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour	36.1		
	Fuel Consumption at 100% Prime Power	Litres/hour	33.4		
	Fuel Consumption at 75% Prime Power	Litres/hour	24.7		
	Fuel Consumption at 50% Prime Power	Litres/hour	16.4		
	Standard Fuel Tank Capacity	Hours / Litres	560		
Air System	Maximum Air Intake Restriction				
	- Clean Filter	kPa	2		
	- Dirty Filter	kPa	3		
	Air Filter Type		Paper Element		
Exhaust System	Exhaust Gas Flow	m ³ /min	23.78	25.53	
	Exhaust Gas Temperature	°C	484		
	Maximum Back Pressure	kPa	6		
	Exhaust Outlet Size	mm	72		
Oil System	Maximum Total System Oil Capacity	Litres	16.5		
	Minimum Oil Capacity in Sump	Litres	12.4		
	Maximum Oil Capacity in Sump	Litres	14.9		
	Maximum Continuous Oil Temperature (In Rail)	°C	125		
Cooling System	Total System Capacity	Litres	21		
	- Engine Only	Litres	9.5		
	Thermostat Operation Range	°C	82-93		
	Maximum Top Tank Temperature	°C	110		
Electric System	Electrical System Voltage	V	12		
	Battery		Maintenance-free		
	Connecting Cables		Available		
Energy Balance	Power to Coolant and Lubricating Oil	kW	69.1	75.7	
	Energy to Exhaust	kW	96.6	105.6	
	Energy to Radiation	kW	11	12.2	

Alternator		50Hz/1500rpm		
		Units		
General Data	Manufacture / Brand		Leroy Somer	
	Model		TAL-A44-K	
	Coupling / No. of Bearings		Direct / Single Bearing	
	Phase / Poles		3-Phase / 4-Pole	
	Power Factor		Cos Φ = 0.8	
	AVR Regulation		Yes	
	Voltage Regulation		± 1 %	
	Insulation Class		H	
	Drip Proof		IP23	
	Excitation		Self Excited	
	Altitude	m	≤ 1000	
	Overspeed	min ⁻¹	2250	

Alanta Power Controller Function Summary

Controller Model / ComAp	EC 2.0 / Nano Plus	DSE6120 MKII	EC 4.0 / AMF25	EC 5.0 / IG-NT
Controller Photos				
Standard Supply	×	●	○	○
Viewable Parameters				
Phase Voltage	×	3	3	3
Current	Instrumentation	●	●	●
Frequency	●	●	●	●
Active Power	×	●	●	●
Reactive Power	×	●	●	●
Apparent Power	×	●	●	●
Power Factor	×	●	●	●
Electric Energy Metering	×	●	●	●
Generator Protection				
Abnormal Voltage	●	●	●	●
Over-current Warning	×	●	●	●
Over current Protection	●	●	●	●
Over Frequency Protection	●	●	●	●
Short Circuit Protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●
Engine Figure				
Oil Pressure	●	●	●	●
Water Temperature	●	●	●	●
Fuel Meter / Fuel Sensor	●/○	●/○	●/○	●/○
Speed	●	●	●	●
Battery Voltage	●	●	●	●
Elapsed Time	●	●	●	●
Engine Protection				
Low Oil Pressure Warning	×	●	●	●
Low Oil Pressure Protection	●	●	●	●
High Temperature Warning	×	●	●	●
High Temperature Protection	●	●	●	●
Overspeed Warning	×	●	●	●
Overspeed Protection	×	●	●	●
Alternator Charger	●	●	●	●
Functions				
Remote Start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable Input	●	●	●	●
Programmable Output	●	●	●	●
Expand Module	×	○	○	○
Communication Function	×	○	○	● / RS232 / 485
Communication Port	USB	○	○	RS232 / 485
CAN	●	×	●	●
Service Indicate	×	×	●	●
Fault History	●	●	●	●
Gen-Gen Synchronising	×	×	×	●
Gen-Mains Synchronising	×	×	×	●

Remark: ● Standard Supply

○ Available as Optional

× Not Available

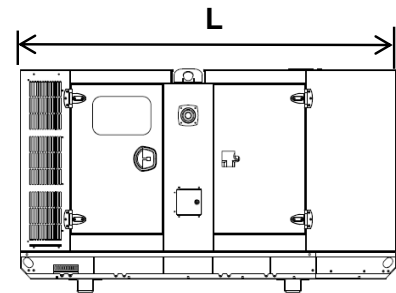
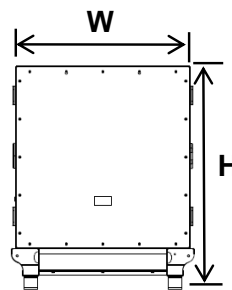
Features:

- The soundproof generating set range offers power outputs from 9kVA - 2250kVA at 50Hz and 9kVA - 1700kVA at 60Hz.
- The newly designed sturdy canopies or the containerised enclosures both maximise noise reduction which makes any sound attenuated unit suitable for construction sites or home backup power (available in mobile and stationary configurations).
- At all times we keep in our inventory a large range of accessories for immediate sales or aftersales needs.
- Our standard Deepsea/ComAp control panel with its standalone cabinet is equipped with a large display screen, emergency stopbutton and circuit breaker.
- Like all of our finished products all component parts of the genset are subject to a stringent range operating tests with over 30 checks prior to delivery.



Standard

- Control panel with digital controls mounted within a cabinet with a large viewing window.
- Load bearing base frame with a liquid retaining base
- Highly efficient anti-vibration mounts placed between the engine/alternator and baseframe
- Fuel tank with electronic level sensor, plugs and loading / unloading points
- Engine oil extraction pump
- Fuel filter
- Sound-insulated canopy made with powder coated cold rolled sheet steel.
- Sound-proofing / attenuation foam within the internal frame.
- Insulation on the internal exhaust pipe.
- Residential silencer
- Rain cap
- External lifting points



Optional

- ATS changeover switch
- Radiator coolant level sensor
- 220V/240V electric space heater or jacket
- Water heater
- Slow moving trailer
- Heat guards
- PMG

Overall Dimensions & Weight & Noise

(L x W x H)	3400x1100x1750	mm
Weight	2150	kg
Noise Level- at 7m	65-78	dB(A)
Base Tank @100% Load	430	Litres

Alanta Power offers not only a changeover switch but also an integrated mains detection and switch system for your 24 Hour Power Protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic re-transfer once it come back.

System Advantages

- Automatically transfer and re-transfer load from main power to gen-power without operator intervention.operation (Both automatic and manual).
- ATS Controller (AMF function), seamless integration with AMF25
- Available from 32 – 4000A, better protection for 4 pole switch.
- Available in standard, bypass isolation and service-entrance configurations.
- Configurable in open, closed and programmed transition operating modes.
- Designed to interface seamlessly with Alanta Power generators and switchgear.
- Drip proof IP42 enclosure.
- Easy installation: wall-mounted & floor standing
- Comes fully loaded with the technology to do the job.



50/60 Hz, 32-4000 Amps

Rated Current	Amps	32	63	80	100	125	160	200	250	300	315	400	630	800	1000	1250	1600	2000	2500	3200	4000A
Breaker Type	Chinese	x	A	x	A	x	B	x	C	x	x	C	C	D	D	D	D	E	E	E	x
	ABB	B	B	x	B	B	B	B	B	x	C	C	D	D	D	D	D	E	E	x	x
	Socomec	x	B	B	B	B	B	x	B	x	x	C	D	D	D	D	E	E	E	E	E

Dimensions : mm

A: 400x200x500 B: 500x300x650 C: 600x400x1200 D: 800x600x1400 E: 1000x800x1600

Warranty

Alanta Power distributor, dealer, or authorized representative performs startup within 6 months of the date of shipment from the factory, warranty coverage will begin on the startup date (Register the startup date to Alanta with in 6 month is essential and can be enforced). This warranty does not apply to malfunctions caused by damages, unreasonable use, misuse, repair or service by unauthorized persons, or normal wear and tear.

Warranty Coverage

Generators used to commercial utility source:
One (1) year or 1000 hours (whichever occurs first) from date of shipment from the factory or registered startup date.