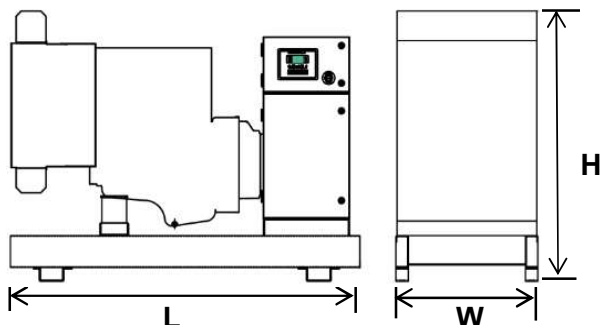


Engine Cummins KTA38-G4	Alternator Tide FPA40-8004	Generator Model FB1125X-C / Open BS1125X-C/Silent
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60Hz/1800rpm	3-Phase	Power Factor Factor Cos $\Phi = 0.8$	Emissions N/A
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RATINGS	Prime Power (PRP)		Standby Power (ESP)		Rated Current Amps	Fuel Consumption @100% Load
	kWe	kVA	kWe	kVA	(A)	L/h
Voltage (V)						
380/220	900	1125	1000	1250	1709,3	245,0
440/254	900	1125	1000	1250	1476,2	245,0
220/127	900	1125	1000	1250	2952,4	245,0
230/132	900	1125	1000	1250	2824,1	245,0

	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 - Open Set	
Length (L)-mm:	4350
Width (W)-mm:	2100
Height (H)-mm:	2400
Dry Weight-kg:	8900

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 for one 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.

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

Engine		Cummins KTA38-G4	
	Units	Prime	Standby
General Performance	Frequency	60	
	Engine Speed	1800	
	Cylinders / Type	12 cyl / 60° Vee / 4-stroke	
	Aspiration	Turbocharged , Aftercooled	
	Governor Type	Electronic Governor	
	Bore / Stroke	159/159	
	Displacement	38	
	Compression Ratio	13.9:1	
	Piston Speed	9,5	
	Brake Mean Effective Pressure	1769	1953
	Engine Power	1007	1112
Fuel System	Fuel Consumption at 110% Prime Power	271	
	Fuel Consumption at 100% Prime Power	245	
	Fuel Consumption at 75% Prime Power	190	
	Fuel Consumption at 50% Prime Power	136	
	Fuel Consumption at 25% Prime Power	81	
	Standard Fuel Tank Capacity	N/A	
Air System	Maximum Intake Air Restriction with Heavy Duty Air Cleaner		
	- With Clean Filter Element	3,73	
	- With Dirty Filter Element	6,23	
	Intake Air Flow	1359	1435
Exhaust System	Maximum Back Pressure	10	
	Exhaust Outlet Size	152	
	Exhaust Gas Flow	3641	3967
	Exhaust Gas Temperature	499	524
Oil System	Total Oil System Capacity	135,1	
	Oil Pan Capacity - Low	121,1	
	Oil Pan Capacity - High	151,4	
	Maximum Oil Temperature	121	
Cooling System	Coolant Capacity - Engine Only	123,8	
	Standard Thermostat (Modulating) Range	82-93	
	Maximum Allowable Top Tank Temperature	100	104
Electric System	Electrical System Voltage	24	
	Battery	Maintenance-free	
	Connecting Cables	Available	
Energy Balance	Radiated Heat to Ambient	148	163
	Heat Rejection to Coolant	617	681
	Heat Rejection to Exhaust	694	762

Alternator		60Hz/1800rpm	
	Units		
General Data	Manufacture / Brand	Tide	
	Model	FPA40-8004	
	Coupling / No. of Bearings	Direct / Single Bearing	
	Phase / Poles	3-Phase / 4-Pole	
	Power Factor	Cos Φ = 0.8	
	AVR Regulation	Yes	
	Voltage Regulation	$\pm 0,5 \%$	
	Insulation Class	H	
	Drip Proof	IP23	
	Excitation	AREP	
	Altitude	≤ 1000	
	Overspeed	2250	

Tide Power Easycon Function Summary

Controller Model / ComAp	EC 2.0 / Nano Plus	EC 3.0 / AMF20	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

"Ensure a quieter life with our sound attenuation system."

Features:

Extremely Rugged & Highly Corrosion Resistant Construction

- ISO CSC certified container.
- Body made from 2.0mm sheet steel components marine class painting.
- Fuel tank installed inside container for your option.
- Excellent design and craftsmanship
- Compact structure and longer service life
- Residential silencer to made sure the sound level.
(Box type internal for option)
- Stainless steel locks and cast-iron hinges to withstand corrosive conditions.



Easy Commissioning and Maintenance

- Floor standing control panel inside, easy reachable electrical power connections board.
- Access doors either side with emergency panic release buttons .
- Radiator fill access through cover in container roof.
- Lube oil drain and radiator drain.
- Manual lube oil pump for option.
- Ladder provided to easily maintain.

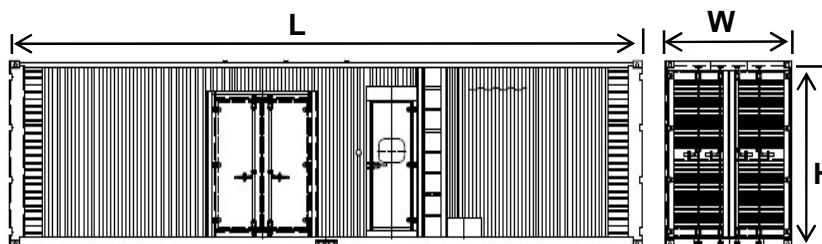


Security and Safety

- Earth leakage protection.
- 50mm non-inflammable rock wool sound absorber.
- Skid proof plated floor.
- Control panel viewing window in a lockable access door.
- Emergency stop button mounted on either side.
- Emergency DC lighting above each door, integrated AC and DC lighting in the generator set compartment and power distribution system.
- Fuel fill and battery can only be reached via lockable access doors.
- Exhaust silencing system enclosed for operator safety
- Efficient management of cooling air to avoid high water temperature, reliable operation under harshest conditions.

Transportability

- Lifting four points on top to move genset easily.



Dimensions	Weight	Noice Level	Base Tank @100% Load	
(L x W x H) mm	kg	dB(A) at 7m	Hours	Litres
40FT	15000	≤85	N/A	N/A

Tide 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 TIDE 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: 400×200×500

B: 500×300×650

C: 600×400×1200

D: 800×600×1400

E: 1000×800×1600

Optionals (All depends)

Genset:

Materials & Miscellaneous

- Marine class painting and other special painting
- Standard accoustic enclosure genset
- Extended warranty
- Extended factory test
- Additional sensors
- Off road trailer type
- Standard ATS
- Mounted fire extinguisher
- Additional vibration isolation
- Wooden case packaging
- Tide Power tool kit
- Additional operation manual
- Nylon canvas wrapped packaging
- Iron shelf for double stack shipping
- Water jacket heater
- Additional CE features selection.

Custom-Made solutions

Genset:

Materials & Miscellaneous

- On road trailer (EU) type
- Rental type genset
- Mining type genset
- Marine type genset
- High temp. Radiator for silenttype genset
- EPA series gensets

Diesel Engine/ Baseframe Mounted Accessories:**Cooling System**

- Engine heat guards
- Low coolant level alarm & shutdown (Depends on engine series)
- High temp. & Anti-erosion radiator upgrade for open type genset
- 50% antifreeze @-36°C

Filters

- Extra air filters for time-maintenance
- Double heavy duty air filters
- Extra fuel filters for time-maintenance
- Extra oil filters for time-maintenance

Exhaust

- Residential silencer for open type genset
- Stainless steel silencer and kits
- Heat protection guard

Fuel & Oil

- Separated / External fuel tank
- Water - fuel separator
- 3 way fuel valve
- Manual bypass valve
- Lub oil make up tank
- Lub oil drain pump
- Fuel level sensor
- Fuel cooler
- Automatic remote fuel supply with fuel level switch & low fuel level alarm shutdown.
- Coolant heater 220/240V
- Lub-oil heater for severe cold weather

Starting & Charging

- Bulk starting battery -17°C below
- Battery removal switch
- Battery heater

Control System & Power Termination:**Control System & Breakers**

- Different functional modules with
- Tide Easycon refer to other table
- Mounted audible and visible lighting
- Control panel cover (80kva or below)
- Motorized circuit breaker 3 Poles
- Motorized circuit breaker 4 Poles
- ACB 3 Poles
- MCCB 4 poles
- Different breaker brands, like ABB etc
- Leakage protection switch

Diesel Engine/ Baseframe Mounted Accessories:**Cooling System**

- Anti-erosion radiator for silent type genset
- Remote radiator with heat exchanger
- Remote cooling tower with heat exchanger

Filters

- Mounted heavy duty air filter

Exhaust

- Mounted heavy duty air filter

Fuel & Oil

- Bulk base fuel tank
- Bunded base fuel tank

Starting & Charging

- None

Control System & Power Termination:**Control System & Breakers**

- Various standard sockets mounted outside the enclosure

Optionals (All depends)

Brushless Alternator:

- 12 Lead stator (change voltage depends)
- Interchangeable S.A.E flanges and drive discs
- Convenient filters on air inlets and outlets
- Coastal type [] Alternator painting color P.M.G or auxiliary
- AREP for Leroy-Somer only
- Shunt trip
- Exterior potentiometer
- Auxiliary contacts and double bearing
- Anti-condensation heater
- Stator thermal protection
- Quadrature droop kits

Enclosure & Canopy:

Weather protective & Sound proof

- R series
- ISO 20ft containerized
- ISO 40ft containerized
- Stainless steel locks and hinges

Custom-Made solutions

Brushless Alternator:

- Temperature rise class F Marine type alternator IP upgrade HV

Enclosure & Canopy:

Weather protective & Sound proof

- Super silent enclosure
- Weather proof enclosure
- Flat sponge sound absorber enclosure
- Porous sheet with rockwool sound absorber enclosure

Please refer to Tide Power sales department for full details of the above options.

Warranty

Tide 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 Tide within 6 months 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.