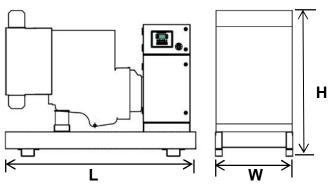
[Tide Power

Technical Data

May 2018

Engine		Alternator	Generato	r Model				
Huachai Deutz BF6M1015C-LA G3B Leroy-Somer LSA 46.3 L10					FB350X-D / Open	FC350X-D / Silent		
60Hz/1800R.P.M	3-Pł	nase		Power Facto ctor Cos Φ =		Emissions N/A		
RATINGS	(PRP) (ESP)		·	Rated Current Amps	Fuel Consumption @100% Load			
Voltage (V)			kWe kVA kWe		(A)	L/h		
380/220	280	350	310	388	531.8	77.6		
440/254	280	350	310	388	459.3	77.6		
220/127	280	350	350 310 388 350 310 388		918.5	77.6		
					878.6	77.6		





Overall Dimensions	& Weights - Open Se	et
Length (L)-mm:	2850	
Width (W)-mm:	1520	
Height (H)-mm:	2100	
Dry Weight-kg:	2520	

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 $^\circ\!\!C$.

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

Engine		Huachai Deutz BF6M1015C-LA G3						
		Units	Prime	Standby				
	Frequency	Hz	60					
	Engine Speed	r/min	1800					
	Cylinders / Type		6 cyl / in V form at angle	of 90 / 4-stroke				
	Aspiration		Turbocharg	ed				
- ·	Governor Type		Electronic Gov	rernor				
General Performance	Bore / Stroke	mm	132/145					
renormance	Displacement	Litres	11.906					
	Compression Ratio		16.5:1					
	Rotation Direction (From Flywheel Side)		Anti-clockw	ise				
	Engine Idle Speed	rpm	600 ±50					
	Engine Max.Power	kWm	341					
	Fuel Consumption at 110% Prime Power	Litres/hour	85.4					
	Fuel Consumption at 100% Prime Power	Litres/hour	77.6					
F 10 (Fuel Consumption at 75% Prime Power	Litres/hour	62.1					
Fuel System	Fuel Consumption at 50% Prime Power	Litres/hour	42.7					
	Fuel Consumption at 25% Prime Power	Litres/hour	23.3					
	Standard Fuel Tank Capacity	Hours / Litres	8 / 620					
	Max. Allowable Intake Resistance	mbar	50					
Air System	Turbocharger Inlet Size	mm	122					
	Volume of Air Intake (25°C/1000mbar)	m³/h	1786					
	Max. Exhaust Back Pressure	mbar	50					
Exhaust	Turbocharger exhaust flange inner diameter size	mm	117					
System	Exhaust Gas Flow	kg/h	2150					
	Max. Exhaust Temperature	°C	465					
	Oil Capacity-Initial Oil Filling	Litres	38					
Oil System	Oil consumption rate		<0.3% of Fuel Cor	sumption				
Oil System	Oil Filter Element Type		Disposable F	ïlter				
	No. of Oil Oilter Element		1					
0 "	Coolant Capacity - Engine Only	Litres	17					
Cooling System	Open Temperature of the Two Thermostats	°C	79-87					
Gystern	Thermostat Open Temperature Both	°C	94-102					
	Electrical System Voltage	V	24					
Electric System	Battery		Maintenance	free				
Cystem	Connecting Cables		Auailable					

Alternator

60Hz/1800R.P.M

		Units			
	Manufacture / Brand		Leroy-Somer		
	Model		LSA 46.3 L10		
	Coupling / No. of Bearings		Direct / Single Bearing		
	Phase / Poles	ase / Poles			
	Power Factor	Cos Φ = 0.8			
General Data	AVR Regulation	Yes			
Conoral Data	Voltage Regulation		± 0,5 %		
	Insulation Class		н		
	Drip Proof		IP23		
	Excitation		Shunt		
	Altitude	m	≤1000		
	Overspeed	min ⁻¹	2250		

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Controller Model / ComAp	EC 2.0 / Nano Plus	EC 3.0 / AMF20	EC 4.0 / AMF25	EC 5.0 / IG-NT
Controller Photos	restitueer			
Standard Supply	×	٠	0	0
Viewable Parameters			i i	
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	X	•	•	•
Over current Protection		•	•	•
Over Frequency Protection		•	•	•
Short Circuit Protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●
Engine Figure				
Oil Pressure	•	•	•	•
Water Temperature	•	•	•	•
Fuel Meter / Fuel Sensor		-		-
	●/○	•/0	●/○	•/0
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)	v	•		
Programmable Intput		•	•	
Programmable Output	•	•	•	•
Expand Module	•	0	0	0
Communication Function	×	0	0	•/ RS232 / 485
Communication Port	USB	0	0	RS232 / 485
CAN	<u> </u>	×	•	R3232 / 463
Service Indicate			•	•
Fault History	×	×	· · · · · · · · · · · · · · · · · · ·	-
-	•	•	•	•
Gen-Gen Synchronising Gen-Mains Synchronising	X	× ×	×	.

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 www.tpshk.com

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

Extremely Rugged & Highly Corrosion Resistant Construction

- Body made from 2.0mm sheet steel components with powder coating
- 8-12 hours built-in fuel tank integrated into the skid-mount base
- Excellent design and craftmanship
- Compact structure and longer service life
- Residential silcencer to made sure the sound level.
- Zinc alloy with black powder coated locks and hinges and proven to withstand corrosive conditions.

Easy Commissioning and Maintenance

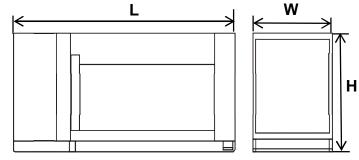
- Separate & Standing control room at end side, easy reachable electrical power connections, board.
- Side doors allowing 180° opening rotation .
- Radiator fill access through cover in canopy roof.
- Lube oil drain and radiator drain.
- Manual lube oil pump provided.

Security and Safety

- Earth leakage protection.
- 40-50mm non-inflammable sponge inside.
- Control panel viewing window in a lockable access door.
- Emergency stop button mounted on canopy exterior.
- 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 points on top to move genset easily.
- Fork lift legs provided and easy to loose to fix the genset.



Overall Dimensions & Weight & Noice									
Dimensions	Weight	Base Tank @	@100% Load						
(L x W x H) mm	kg	dB(A) at 7m	Hours	Litres					
4400×1800×2250	4600	65-78	8	620					



Automatic Transfer Switch

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
	Chinese	×	Α	×	Α	×	в	×	с	×	×	с	с	D	D	D	D	Е	E	E	×
Breaker Type	ABB	в	в	×	в	в	в	в	в	×	с	с	D	D	D	D	D	Е	E	×	×
	Socomec	×	в	в	в	в	в	×	в	×	×	с	D	D	D	D	Е	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
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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.

Genset:

Materials & Miscellaneous

Custom-Made solutions

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



Optionals (All depends)

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 alarmshutdown.
- 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 visable llighting
- 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

Custom-Made solutions

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 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.