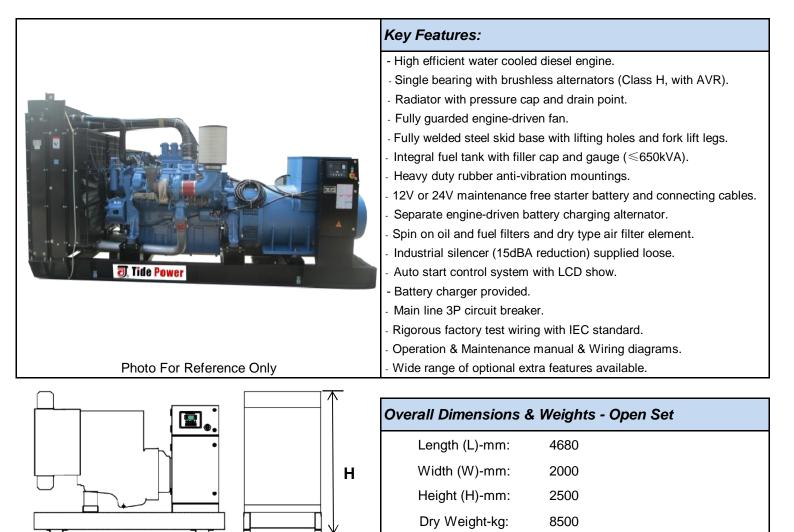
Tide Power

Technical Data

June 2018

Engine	Alternator	Generator	Model
Germany MTU 18V2000G26F	Leroy-Somer LSA 50.2 M6	FB1250-M / Open	TMT1250C / Silent

50Hz/1500R.P.M	3-Ph	ase	-	ower Factor tor Cos Φ = (Emissions N/A			
RATINGS	Prime F	Power	Standby	Power	Rated Current	Fuel Consumption			
RATINGS	(PR	P)	(ES	P)	Amps	@100% Load			
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h			
380/220	1000	1250	1100	1375	1899.2	255.0			
400/230	1000	1250	1100	1375	1804.3	255.0			
415/240	1000	1250	1100	1375	1739.1	255.0			



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.

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Germany MTU 18V2000G26F

		Units	СР	FSP
	Frequency	Hz	50	
	Engine Speed	r/min		
	Cylinders / Type		18 cyl / 90 [°] V ang	le / 4-stroke
	Aspiration		Air charge air	cooling
General	Governor Type		ECM	
General Performance	Bore / Stroke	mm	135/15	6
Fenomance	Displacement	Litres	40.2	
	Compression Ratio		17.5:1	
	Engine Power	kWm	1102	1212
	Mean Piston Speed	m/s	7.5	
	Brake Mean Effective Pressure without Fan	bar	21.9	24.1
	Fuel Consumption at 110% Prime Power	Litres/hour	280.0	
	Fuel Consumption at 100% Prime Power	Litres/hour	255.0	
	Fuel Consumption at 75% Prime Power	Litres/hour	190.0	
Fuel System	Fuel Consumption at 50% Prime Power	Litres/hour	131.0	
	Fuel Consumption at 25% Prime Power	Litres/hour	71.0	
	Standard Fuel Tank Capacity	Hours / Litres	N/A	
	Intake Air Depression (New Filter)	mbar	15	
Air System	Intake Air Depression, Max.	mbar	40	
-	Combustion Air Volume Flow	m³/s	1.48	1.55
	Exhaust Gas Flow	m³/s	3.8	4.0
Exhaust	Exhaust Gas Temperature	°C	N/A	N/A
System	Exhaust Back Pressure	mbar	30	
	Exhaust Back Pressure, Max.	mbar	50	
	Engine Oil Capacity, Initial Filling	Litres	122	
	Maximum Oil Pan Capacity	Litres	110	
Oil System	Minimum Oil Pan Capacity	Litres	N/A	
	Lube Oil Operating Temp.Before Engine, from \sim To	°C	75~10	0
	Engine Coolant Capacity (Engine only)	Litres	73	
Cooling	On-engine Fuel Capacity	Litres		
System	Coolant temperature after engine, alarm \sim shutdown	°C)5	
	Coolant Temperature	°C	100	
	Electrical System Voltage	V	24	
Electric System	Battery		Maintenanc	e-free
System	Connecting Cables		Auailab	le
F actor	Radiation and Convection Heat	kW	45	45
Energy	Heat Dissipated by Engine Coolant	kW	N/A	N/A
Balance	Charge-Air Heat Dissipation	kW	280	315

Engine

Alternator			50Hz/1500R.P.M					
		Units						
	Manufacture / Brand		Leroy-Somer					
	Model		LSA 50.2 M6					
	Coupling / No. of Bearings		Direct / Single Bearing					
	Phase / Poles		3-Phase / 4-Pole					
	Power Factor		Cos Φ = 0.8					
General Data	AVR Regulation		Yes					
General Data	Voltage Regulation		± 0,5 %					
	Insulation Class		Н					
	Drip Proof		IP23					
	Excitation		AREP					
	Altitude	m	≤1000					
	Overspeed	min ⁻¹	2250					

Controller Model / ComAp	EC 2.0 / Nano Plus	EC 3.0 / AMF20	EC 4.0 / AMF25	EC 5.0 / IG-NT	
Controller Photos			IntellLts All 2 Cords		
Standard Supply	×	×	•	0	
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	×	•	•	۲	
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		•	•	۲	
Overspeed Warning	×	•	•	•	
Overspeed Protection	Х	•	•	٠	
Alternator Charger	•	٠	•	٠	
Functions					
Remote Start	•	•	•	•	
AMF (Auto Main Failure)	•	•	•	•	
Programmable Intput	•	•	•	•	
Programmable Output	•	•	•	•	
Expand Module	×	0	0	0	
Communication Function	×	0	0	•/ RS232 / 485	
Communication Port	USB	0	0	RS232 / 485	
CAN	•	×	•	•	
Service Indicate	×	×	•	•	
Fault History	^ •	•	•	•	
Gen-Gen Synchronising	×	×	×	•	
Gen-Mains Synchronising	×	× ×	×		

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"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 craftmanship
- Compact structure and longer service life
- Residential silcencer to made sure the sound level. (Box type internal for option)
- Stainless steel locks and cast-iron hinges to withstand corrosive conditions.

a the Power

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

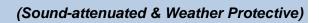
· Lifting four points on top to move genset easily.

Dimensions	Weight	Noice Level	Base Tank @100% Load					
(L x W x H) mm	kg	dB(A) at 7m	Hours	Litres				
40HQ	15300	≪80	N/A	N/A				

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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	Е	E	E	E

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

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.