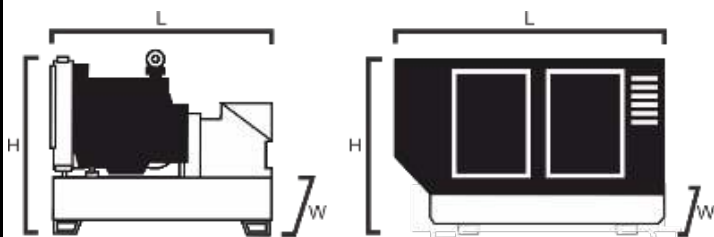




Engine		Alternator			Generator Model	
YTO YM6H4LF-D		Tide FPA27-1609			PC238X-YT / Silent	
Frequency	Phase		Power Factor		Emissions	
60Hz/1800rpm	3-Phase		Factor Cos Φ = 0.8		N/A	
RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption @100% Load
	(PRP)		(ESP)		Amps	
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
380/220	190	238	208	260	360,9	51,35
440/254	190	238	208	260	311,6	51,35
220/127	190	238	208	260	623,3	51,35



### 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.

Dimensions & Weights	Silent
Length (L)-mm:	3750
Width (W)-mm:	1500
Height (H)-mm:	1800
Dry Weight-kg:	2700
Fuel tank (h)	8
(dBA)@7m no load	$\leq 85$

### 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.

#### (1)PRP (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.

#### (2)ESP (Standby Power):

Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure.

#### (3)STD:Standard Alternator.

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





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China Tel./FAX.: +86 591 28068999 / 28068900

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 Engine	YTO YM6H4LF-D			
General Performance	Frequency	Hz	60	
	Engine Speed	r/min	1800	
	Cylinders / Type	6 cyl / In-line / 4-stroke		
	Aspiration	Turbocharged with Aftercooler		
	Governor Type	Electronic		
	Bore / Stroke	mm	120/130	
	Displacement	Litres		
	Compression Ratio	17.5:1		
	Direction of rotation	Anti-clockwise viewed on flywheel		
	Cooling medium	Liquid		
	Engine Power	kWm	215	235
Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour	56,49	
	Fuel Consumption at 100% Prime Power	Litres/hour	51,35	
	Fuel Consumption at 75% Prime Power	Litres/hour	38,51	
	Fuel Consumption at 50% Prime Power	Litres/hour	25,68	
	Fuel Consumption at 25% Prime Power	Litres/hour	12,84	
	Standard Fuel Tank Capacity	Hours	8	
Oil System	Total Oil System Capacity	Litres	24	
	Oil Pressure @ Governed Speed	kPa	294-490	
	Lubricating oil type	CF-4		
	Lubricating oil temperature maximum to bearings	°C	115	
Cooling System	Coolant Capacity - Engine Only	Litres	23	
	Thermostat operating range	°C	71-85	
	Maximum top tank temperature	°C	99	
Electric System	Electrical System Voltage	V	24	
	Battery	Maintenance-free		
Energy Balance	Energy to coolant and oil	BTU/min	9279	
	Energy to exhaust	BTU/min	10703	
	Heart to radiation	BTU/min	777	
 Alternator	60Hz/1800rpm			
General Data	Manufacture / Brand	Tide		
	Model	FPA27-1609		
	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		
	Voltage Regulator	AVR		
	Altitude	≤1000 m		



### Tide Power Easycon Function Summary

#### SMARTGEN HGM6120N

**HGM6120N:** Automatic Start Module, it controls generator to start/stop by remote start signal, with Mains AC monitoring and mains/generator automatic switching control (AMF), especially suitable for the automation system composed by mains and genset, without RS485 port, without CAN port.



#### Main characteristics are as below:

132x64 LCD display with backlight, optional language interface (Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French), push-button operation;

Acrylic screen, improved wearability and scratch resistance property;

Silica-gel panel and keys can well adapt to higher/lower temperature;

With RS485 communication port, can achieve "three remote" functions via MODBUS protocol;

With CANBUS port which can be connected to electronic injection with J1939, it not only monitors With CANBUS port which can be connected to electronic injection with J1939, it not only monitors frequently-used data (such as water temperature, oil pressure, rotated speed and fuel consumption, etc.) but also can control start, stop, high speed and low speed (controller with CANBUS port is needed) via CANBUS port;

Adapt to 3P4W 3P3W, 1P2W and 2P3W (120V/240V), 50Hz/60Hz AC power system;

Can measure and display 3 phase voltage, 3 phase current, frequency, power parameter of mains/gens;

Mains have functions of over/under voltage and lack of phase; Gens have functions of over/under voltage, over/under frequency, over current and over power;

Precision measure and display of parameters about engine

Control protection: Automatic start/stop of genset, load transfer (ATS control) and perfect failure display and protection;

With ETS, idle speed control, pre-heat control, speed droop/raising control, all of them are relay output;

Parameter setting: Allow user to modify setting and store them in internal FLASH memory. The parameters cannot be lost even when power off. All of parameters can be set not only from the front panel, but also use USB interface (or RS485 interface) to adjust them via PC.;

Multi sensors of temperature, pressure and fuel level can be used directly, parameters can be defined by user;

Multi conditions of crank disconnect (speed, oil pressure, frequency) can be selected;

With emergency start function;

With flywheel teeth numbers automatic identification function;

Power supply range: (8~35)VDC, accommodating to different starting battery volts;

All parameters use digital modulation, instead of analog modulation using conventional potentiometer, having improved reliability and stability;

With maintenance function. Types (date or running time) can be selected and actions (warning or alarm shutdown) can be set when maintenance time out;

Event log, real-time clock, scheduled start & stop pump unit (can be set as start pump unit once a day/week/month whether with load or not);

Add rubber gasket between shell and controller screen, the waterproof can reach IP65;

Controller is fixed by metal fixing clips;

Modular design, flame-retardant ABS shell, embedded mounting, compact structure and easy installation.



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