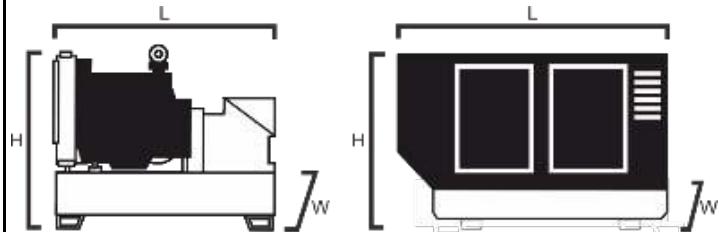


Engine		Alternator			Generator Model	
YTO YM6H4LF-D		Tide FPA27-1609			PC238X-YT / Silent	
Frequency	Phase	Power Factor			Emissions	
60Hz/1800rpm	3-Phase	Factor Cos Φ = 0.8			N/A	
RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption @100% Load
	(PRP)		(ESP)		Amps	
Voltage (V)	kWe	kVA	kWe	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 (≤ 650 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	≤ 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.

Production Base: Daventry,UK, & Fuzhou, China

Worldwide Office: Singapore, Philippine, Vietnam, Bangladesh, Australia, Colombia, China Tel./FAX.: +86 591 28068999 / 28068900

Enquiry:sales@tpshk.com



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	
Fuel System	Engine Power	kWm	215 235
	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
Oil System	Standard Fuel Tank Capacity	Hours	8
	Total Oil System Capacity	Litres	24
	Oil Pressure @ Governed Speed	kPa	294-490
	Lubricating oil type	CF-4	
Cooling System	Lubricating oil temperature maximum to bearings	°C	115
	Coolant Capacity - Engine Only	Litres	23
	Thermostat operating range	°C	71-85
Electric System	Maximum top tank temperature	°C	99
	Electrical System Voltage	V	24
	Battery	Maintenance-free	
Energy Balance	Energy to coolant and oil	BTU/min	9279
	Energy to exhaust	BTU/min	10703
	Heat 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 signa, 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 wearable 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 monitor With CANBUS port which can be connected to electronic injection with J1939, it not only monitor 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 PS485 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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