

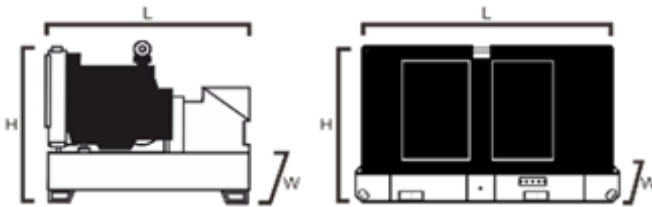
## Technical Data

Engine		Alternator			Generator Model	
YTO LR4M3L-DA		Tide FPA27-209			PC120X-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	96	120	106	132	182.3	25.33
440/254	96	120	106	132	157.5	25.33
220/127	96	120	106	132	314.9	25.33



### 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:	2800
Width (W)-mm:	1080
Height (H)-mm:	1500
Dry Weight-kg:	1460
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.**

 Engine	YTO LR4M3L-DA			
General Performance	Frequency	Hz	60	
	Engine Speed	r/min	1800	
	Cylinders / Type	4cyl / In-line / 4-stroke		
	Aspiration	Turbocharged with Aftercooler		
	Governor Type	Electronic		
	Bore / Stroke	mm	110/125	
	Displacement	Litres	4.75	
	Compression Ratio	17:1		
	Direction of rotation	Anti-clockwise viewed on flywheel		
	Cooling medium	Liquid		
	Engine Power	kWm	115	130
Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour	27.87	
	Fuel Consumption at 100% Prime Power	Litres/hour	25.33	
	Fuel Consumption at 75% Prime Power	Litres/hour	20.50	
	Fuel Consumption at 50% Prime Power	Litres/hour	15	
	Fuel Consumption at 25% Prime Power	Litres/hour	8.45	
	Standard Fuel Tank Capacity	Hours	8	
Oil System	Total Oil System Capacity	Litres	14	
	Oil Pressure @ Governed Speed	kPa	294-490kPa	
	Lubricating oil type	L-ECD 15W/40		
	Lubricating oil temperature maximum to bearings	°C	115	
Cooling System	Coolant Capacity - Engine Only	Litres	6	
	Thermostat operating range	°C	76-95	
	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	3152	
	Energy to exhaust	BTU/min	3635	
	Heart to radiation	BTU/min	264	
 Alternator	60Hz/1800rpm			
General Data	Manufacture / Brand	Tide		
	Model	FPA27-209		
	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

Controller Model / ComAp	<b>EC2.0</b>
Order code	IN-NT PLUS
Brand / Model	ComAp / PLUS
<b>Viewable Parameters</b>	
Phase Voltage	×
Current	Instrumentation
Frequency	•
Active Power	×
Reactive Power	×
Apparent Power	×
Power Factor	×
Electric Energy Metering	×
<b>Generator Protection</b>	
Abnormal Voltage	•
Over-current Warning	×
Over current Protection	•
Over Frequency Protection	•
Short Circuit Protection	MCCB / •
<b>Engine Figure</b>	
Oil Pressure	•
Water Temperature	•
Fuel Meter / Fuel Sensor	•/○
Speed	•
Battery Voltage	•
Runing hours	•
<b>Engine Protection</b>	
Low Oil Pressure Warning	×
Low Oil Pressure Protection	•
High Temperature Warning	×
High Temperature Protection	•
Overspeed Warning	×
Overspeed Protection	×
Alternator Charger	•
<b>Functions</b>	
Remote Start	•
AMF (Auto Main Failure)	•
Service Indicate	×
Fault History	•
Gen-Gen Synchronising	×
Gen-Mains Synchronising	×

Remark:

- Standard Supply
- Available as Optional
- × Not Available



### IntelINano<sup>NT</sup> PLUS

#### Description:

IntelINanoNT is a cost effective diesel and gasoline generator set controller which offers outstanding protection, monitoring and control for small and middle size generator sets.

#### Features :

- Supercompact and attractive design
- Integrated solution – less wiring and external components
- Standard industrial cutout dimensions
- The biggest graphical display in its class
- Language free, on display only symbols and numbers, no translation needed
- USB communication interface and CAN for outstanding support of EFI engines
- “Zero” power consumption mode, i.e. extended battery life
- Event Log (10 events)
- Easy and user-friendly installation / operation
- Perfect price / performance ratio
- USB one cord programming
- ComAp's uncompromised quality and performance
- High speed engine support
- Dedicated for diesel and gasoline engines
- Shorter commisioning time – USB one-cord power supply and programming
- All setpoints and I/O's configurable via front panel