

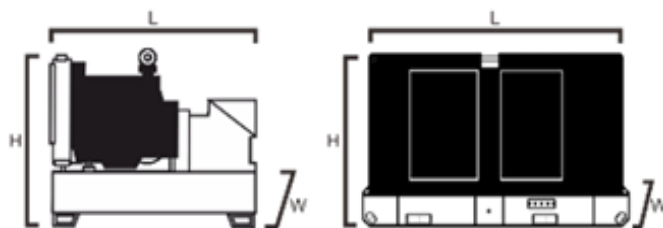
Technical Data

Engine		Alternator		Generator Model		
DCEC Cummins 6BTAA5.9-G12		FPA27-1205		PC150-C / Silent		
Frequency	Phase	Power Factor		Emissions		
50Hz/1500rpm	3-Phase	Factor Cos $\Phi = 0.8$		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	120	150	132	165	227,9	34,0
400/230	120	150	132	165	216,5	34,0
415/240	120	150	132	165	208,7	34,0



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:	3200
Width (W)-mm:	1130
Height (H)-mm:	1650
Dry Weight-kg:	1675
Fuel tank (H)	8
(dBA)@7m no load	N/A

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	DCEC Cummins 6BTA5.9-G12				
General Performance	Engine Frequency / Speed	Hz / r/min	50 / 1500		
	No. of Cylinders / Type	6 cyl / 4-stroke			
	Aspiration	Charge Air Cooled			
	Compression Ratio	17.3:1			
	Governor Type	Electronic			
	Bore	mm	102		
	Stroke	mm	120		
	Displacement	Litres	5,9		
	Piston Speed	m/s	6,0		
	Gross Engine Power Output--Prime / Standby	kWm	140	155	
Fuel System	Type Injection System	BYC P7100			
	Fuel Consumption at 110% Prime Power	Litres/hour	38		
	Fuel Consumption at 100% Prime Power	Litres/hour	34,0		
	Fuel Consumption at 75% Prime Power	Litres/hour	26		
	Fuel Consumption at 50% Prime Power	Litres/hour	17,0		
	Fuel Consumption at 25% Prime Power	Litres/hour	10		
Oil System	Engine Oil Pressure for Engine Protection Devices				
	— Idle Speed (Minimum)	kPa	207		
	— Governed Speed(Maximum)	kPa	345		
	Maximum Oil Temperature	°C	121		
	Minimum Required Capacity - Sump plus Filters	Litres	16,4		
Cooling System	Coolant Capacity - Engine Only	Litres	10		
	Standard Thermostat (Modulating) Range	°C	82-95		
	Minimum Pressure Cap	kPa	69		
	Maximum Top Tank Temperature for Standby / Prime	°C	104 / 100		
Intake / Exhaust System	Maximum Intake Air Restriction--Dirty Element	kPa	6,2		
	Maximum Intake Air Restriction--Clean Element	kPa	3,7		
	Intake Air Flow	Litre/sec.	137	150	
	Maximum Exhaust Back Pressure	kPa	10		
	Exhaust Gas Flow--Prime / Standby	Litre/sec.	321	357	
	Exhaust Gas Temperature--Prime / Standby	°C	495	507	
Electric System	Cranking Motor (Heavy Duty, Positive Engagement)	V	24		
	Battery	Maintenance-free			
Energy Balance	Radiated Heat to Ambient	kW	17	19	
	Heat Rejection to Coolant	kW	57	58	
	Heat Rejection to Fuel	kW	113	125	

 Alternator	50Hz/1500rpm			
General Data	Manufacture / Brand	Tide		
	Model	FPA27-1205		
	Coupling / No. of Bearings	Direct / Single Bearing		
	Phase / Poles	3-Phase / 4-Pole		
	Power Factor	Cos Φ = 0.8		
	AVR Regulation	Yes		
	Voltage Regulation	±0.5%		
	Insulation Class	H		
	Drip Proof	IP23		
	Voltage Regulator	AVR		
Altitude	≤1000 m			