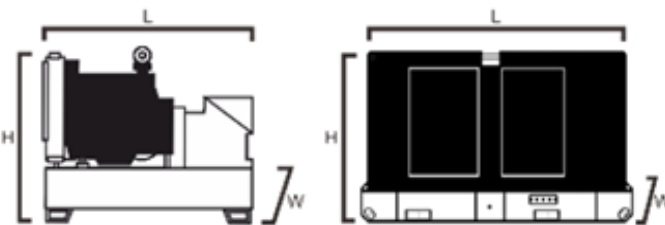


Technical Data

Engine		Alternator		Generator Model		
DCEC Cummins 6BT5.9-G1		Werna WR274C		PC100-C1 / 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	80	100	88	110	151,9	21,7
400/230	80	100	88	110	144,3	21,7
415/240	80	100	88	110	139,1	21,7

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:	1150
Height (H)-mm:	1630
Dry Weight-kg:	1303
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 6BT5.9-G1			
General Performance	Engine Frequency / Speed	Hz / r/min	50 / 1500	
	No. of Cylinders / Type	6 cyl / 4-stroke		
	Aspiration	Turbocharged		
	Compression Ratio	17.3:1		
	Governor Type	Mechanical		
	Bore	mm	102	
	Stroke	mm	120	
	Displacement	Litres	5,9	
	Piston Speed	m/s	6,0	
Fuel System	Gross Engine Power Output--Prime / Standby	kWm	86	92
	Type Injection System	BYC A Direct Injection		
	Fuel Consumption at 110% Prime Power	Litres/hour	23,4	
	Fuel Consumption at 100% Prime Power	Litres/hour	21,7	
	Fuel Consumption at 75% Prime Power	Litres/hour	16,3	
Oil System	Fuel Consumption at 50% Prime Power	Litres/hour	11,5	
	Fuel Consumption at 25% Prime Power	Litres/hour	6,6	
	Engine Oil Pressure for Engine Protection Devices			
	— Idle Speed (Minimum)	kPa	207	
	— Governed Speed(Maximum)	kPa	345	
Cooling System	Maximum Oil Temperature	°C	121	
	Minimum Required Capacity - Sump plus Filters	Litres	16,4	
	Coolant Capacity - Engine Only	Litres	7,9	
	Standard Thermostat (Modulating) Range	°C	82-95	
Intake / Exhaust System	Minimum Pressure Cap	kPa	69	
	Maximum Top Tank Temperature for Standby / Prime	°C	104 / 100	
	Maximum Intake Air Restriction--Dirty Element	kPa	6	
	Maximum Intake Air Restriction--Clean Element	kPa	4	
	Intake Air Flow	Litre/sec.	100	103
	Maximum Exhaust Back Pressure	kPa	10	
Electric System	Exhaust Gas Flow--Prime / Standby	Litre/sec.	252	271
	Exhaust Gas Temperature--Prime / Standby	°C	480	510
	Cranking Motor (Heavy Duty, Positive Engagement)	V	12 / 24	
Energy Balance	Battery	Maintenance-free		
	Radiated Heat to Ambient	kW	19	21
	Heat Rejection to Coolant	kW	54	61
	Heat Rejection to Fuel	kW	82	92

 Alternator	50Hz/1500rpm			
General Data	Manufacture / Brand	Leroy Somer / Firstall		
	Model	WR274C		
	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			