





Engine Cummins 4B3.9-G1	Alternator Stamford Pl144G	Model PP22CSC-1 (Canopied)					
50Hz	1500rpm	1-Phase	Power factor Factor Φ = 1			Emissions N/A	
Ratings	Prime Power		Standby Power		Rated current	Fuel consumption	
Voltage	(PRP)		(ESP)		Amps	@100% load	
(V)	kWe	kVA	kWe	kVA	(A)	L/h	
230	16	20	18	22	44	7.1	
Ratings	All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at unity or 1.0 power factor.						
Prime output	This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.						
Standby output	This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.						

The above ratings are in accordance with ISO8528-1 and ISO3046-1. Standard reference conditions: 25°C, 100m A.S.L., 30% relative humidity.

HQ: Unit 1 Stadium Court, CH52 3QG Company Number: 10942902



0800 689 4803 service@pleavinpower.co.u www.pleavinpower.co.uk

Engine Cummins 4B3.9-G1

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		4 cyl / vertical in-line	
	Displacement	Litres	3.9 L	
	Aspiration		Naturally Aspirated	
	Combustion system		Direct injection	
	Governor type		Mechanical	
	Bore / stroke	mm	102 x 120	
	Starter Motor / Charge Alternator (V dc)		24 V DC	
	Engine power (gross)	kWm	Prime: 20 Standby: 22	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	7.81	
system	Fuel consumption at 100% Prime Power	Litres/hour	7.1	
,	Fuel consumption at 75% Prime Power	Litres/hour	5.33	
	Fuel consumption at 50% Prime Power	Litres/hour	3.55	
	Standard fuel tank capacity	Litres	80	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Electronically governed		YES	
fuel system	Rotary type pump		YES	
	Ecoplus fuel filter		YES	
Oil	Total oil system capacity	Litres	10.9	
system	Maximum sump capacity	Litres	N/A	
,	Wet sump with filler and dipstick		YES	
	Spin-on oil filter		YES	
Cooling	Total system capacity			
system	- With radiator	Litres	N/A	
	- Without radiator	Litres	N/A	
	Thermostat operation range	°C	up to 40°C	
	Maximum top tank temperature	°C	N/A	
Electric	Electrical system voltage	v	24	
system	Battery		 Maintenance-free	
-,	Connecting cables		Included	
Available			Included	
	Battery charger		Included	
options	Battery isolator switch		Included	

Alternator

Stamford PI144G

		Units	
General	Manufacturer / brand		Stamford
data	Model		PI144G
	Coupling / number of bearings		Flexible Disc / Single Bearing
	Phase / Poles		1-Phase / 4-Pole
	Power factor		Cos Φ = 1
	AVR Regulation		Yes
	Voltage Regulation		±1 %
	Insulation class		н
	Drip proof		IP23
	Excitation		Shunt
	Altitude	m	≤1000
	Overspeed	min -1	2250



	DSE Controller Summary				
Controller model / Deepsea DSE	Optional: DSE4620	Standard: DSE6120	Optional: DSE7310/20	Optional: DSE8610/20	
Controller photos				· ·	
Standard supply	0	٠	0	0	
Viewable parameters					
Phase voltage	×	3	3	3	
Current	Instrumentation	•	•	•	
requency	•	•	•	•	
Active power	0	•	•	•	
Reactive power	0	•	•	•	
Apparent power	×	•	•	•	
Power factor	0	•	•	•	
Electric energy metering	×	•	•	•	
Generator protection					
Abnormal voltage	•	•	•	•	
Dvercurrent warning	0	•	•	•	
Overcurrent protection	•	•	•	•	
Over frequency protection	•	•	•	•	
hort circuit protection	MCCB / •	MCCB / •	MCCB / •	MCCB / •	
Engine figure					
Dil pressure	•	•	•	•	
Nater temperature	•	•	•	•	
Fuel meter / fuel sensor	•/0	•/0	•/•	•/○	
Speed	•	•	•	•	
Battery voltage	•	•	•	•	
Elapsed time	•	•	•	•	
Engine protection					
ow oil pressure warning	×	•	•	•	
ow oil pressure protection	•	٠	•	٠	
High temperature warning	0	•	•	•	
High temperature protection	•	•	•	•	
Overspeed warning	×	•	•	•	
Overspeed protection	0	•	•	•	
Alternator charger	٠	•	•	•	
Functions					
Remote start	•	•	•	•	
MF (Auto Main Failure)	•	•	•	•	
Programmable input	•	•	•	•	
rogrammable output	•	•	•	•	
xpand module	×	0	0	0	
Communication function	×	×	RS232 / 484	RS232 / 485	
Communication port	USB	USB	RS232 / 484	RS232 / 485	
CAN	•	0	•	•	
Service indicate	0	0	•	•	
ault history	•	•	•	•	
Gen-gen synchronising	×	×	×	•	

Remark: • Standard supply • Available as optional × Not available

Enclosure / Canopy

Sound-attenuated or open option

"Ensure a quieter life with our sound attenuation system."

Features

Extremely rugged and highly corrosion resistant construction

Unique appearance with high sound absorbing and thermal properties 8-12 hours built-in fuel tank integrated into the skid-mount base Excellent design and craftmanship Full weatherproof enclosure, suitable for operations in harsh conditions Thermo-acoustic installation which can withstand fire, high temperature and severe conditions Residential exhaust muffler manufactured from galvanised steel High quality polyester powder paint Designed on modular principles with interchangeable components permitting on-site repairs

Easy commissioning and maintenance

Control panel viewing window with lockable access door for quick, safe and easy monitoring Side doors allowing 180° opening for easy accessibility Lifting point for easy mobility Lube oil drain and radiator drain Internally mounted exhaust silencers constructed to withstand rough conditions

Security and safety

Earth leakage protection

Secure and lockable access doors for fuel fill and battery

Fully guarded cooling fan and battery charging alternator

Emergency stop push button mounted on the enclosure exterior for urgent and safe shutdown

Efficient management of cooling air to avoid high water temperature

Transportability

Top access lifting points for crane lifting Fork lift pockets for easy movability

Overall dimensions, weight and noise

Frame type	Dimensions	Weight	Base tank (@100% load	Noise level
	(L x W x H) mm	kg	Hours	Litres	dB(A) at 7m
Canopied	2150×985×1420	1240	8	80	72
Open					
BACK VIEW			ERONT VIEW	H	



HQ: Unit 1 Stadium Court, CH52 3QG Company Number: 10942902



0800 689 4803 service@pleavinpower.co.uk

Automatic Transfer Switch

A.T.S - 4 Poles

Pleavin Power offers as an optional accessory, not only a changeover switch but also an integrated mains detection and switch system for your 24 hour power protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic retransfer once it comes back.

System advantages

Automatically transfer and re-transfer load from main power to gen-power without operator intervention (both automatic and manual)

ATS Controller (AMF function), seamless integration

Available from 32 - 4000A

Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Designed to interface seamlessly with generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



*image for illustration purposes only, actual product may differ



0800 689 4803 service@pleavinpower.co.uk www.pleavinpower.co.uk