

Output Power Rating		Prime		Standby ***		
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	350	280	400	320
1800	60 Hz	480	400	320	438	350

Switch able speed 1500/1800 rpm

The above kW rating are at 0.8 pf

Guaranteed within condition equivalent to those specification in ISO 8528-1,ISO 3046-1 and BS 5514-1.

* Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hours period.

Nothing that a 10% overload is available for 1 hour in every 12 hours operation

** Standby power rating of the generating set is where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted

Engine Technical Data

Engine Make and Model	Perkins 2206A-E13TAG2
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, Air to Air Charge Cooled
Combustion System	Direct Injection
Displacement	12.5 Liters
Governor	Electronic
Emissions Regulation	Non-Compliant
Electrical Starting System	12 Volt, Starter Motor and 24V, 45 Amp Alternator with DC Output

Air System

Air Filter Type	Paper Element (Replaceable)		
Combustion Air Flow Cm ³ /min(cfm)	Prime	50 Hz 21.3 (752.20)	60 Hz 27.4 (967.62)
	Standby	23.6 (832.42)	29.0 (1024.12)
	Max Air Filter Intake Restriction	6.4 kpa	6.4 kpa

Fuel System

Fuel Filter Type	Ecoplus (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	80 (21.1)	87 (23.0)
	Prime Power	71 (18.8)	81 (21.4)
	75% of Prime Power	54 (14.3)	62 (16.4)
	50% of Prime Power	37 (9.80)	43 (11.4)
Fuel Tank: Open / Close	950 L / 950 L		

Lubrication System

Lube Oil	API-CI4 SAE 15W-40 (-10 ⁰ C to 50 ⁰ C Ambient Temperature)
Lube Oil Capacity	40 L
Oil Pan	38 L
Oil Filter Type	Full Flow Ecoplus (Replaceable)
Oil Cooling Method	Water

Cooling System

Coolant Capacity	51.4 L		
Cooling System	Mounted Radiator, Water Cooled		
Cooling Fan Air Flow m ³ /min (cfm)	654 (23095.79)	788 (27827.96)	
Heat Radiation to Room	Prime	50 Hz 24.1 kW	60 Hz 40.3 kW
	Standby	32.2 kW	49.5 kW

Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m ³ /min (cfm)	Prime	56.6 (1998.81)	67.5 (2383.74)
	Standby	64.8 (2288.39)	73.5 (2595.62)
Max Allowable Backpressure	10.0 kpa	10 kpa	
Exhaust Gas Max Temperature	Prime	50 Hz 630 ⁰ C	60 Hz 630 ⁰ C
	Standby	630 ⁰ C	660 ⁰ C

Alternator Technical Data				Stamford / or L.S							
Model Number				HCI444E							
No. of Poles				4							
Number of terminals (leads)				12							
A.V.R & Excitation				SX 440							
Regulation				± 1.0%							
Ingress Protection				IP-21							
Insulation Class				H							
TIF				<40							
THD at Full Load %				3.1 / 2.9							
THD at No Load %				2.7 / 2.7							
Cooling Air flow-@50 Hz m ³ / min (cfm)				32 (1130.06)							
Cooling Air flow-@60 Hz m ³ / min (cfm)				39 (1377.27)							
Output Voltage				50 Hz			60 Hz				
V				380	400	415	440	415	440	460	480
kVA				350	350	350	340	380	420	420	420
kW				280	280	280	272	304	336	336	336
Alternator performance data											
Reactance (f.l.c.l.f)		xd %	238.2	215	199.7	172.6	260.2	255.9	234.1	215	
		xd' %	19.1	17.2	16.0	13.8	20.8	20.5	18.7	17.2	
		xd'' %	10.4	9.4	8.7	7.5	11.4	11.2	10.2	9.4	
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)			790	925	1100	-	610	790	950	1100	
Controller features				DSE							
Controller Make and Model				Auto mains failure (AMF) applications including remote communication, user configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wire / 3ph 3 wire/ Mono ph							
Engine Protection				* Oil Pressure * Coolant Temperature			* Fuel Level (Optional)				
Generator Protection				* Over / Under Voltage * Over / Under Frequency * Phases Frequency			* Over Current * Charging Alternator Fault				
Inputs and Outputs				* 3 No's Configurable Analog Inputs * 4 No's Binary Inputs			* 6 No's Binary Outputs * D+ Pre-Excitation Terminal				
Event and Performance Log				* Gen-set text Alarm Log * For More Features we can use High Controller			* Engine Hours History Log				
Gen-set Enclosure specification (optional)											
Enclosure Type				Acoustic and Weatherproof							
Anticorrosive Protection				Polyester Powder Coated Galvanized Sheet							
Access Doors				6							
Drainage				Fuel and Water Drainage Provision							
Transportation				Tested Single Point Lifting Facility & Forklift Pockets							
Noise Level (@ Free-Field Conditions)				75 dBA @ 7 meter							
Water Fill				Radiator Water Filling Provision							
Cable Access				Cable Inlet and Outlet Provision							
Emergency stop				External Emergency Push Button							
Canopy RAL Color				RAL 2000							
Chassis RAL Color				RAL 9011							
Shipping Data											
Type				Length (mm)	Width (mm)	Height (mm)	Weight (kg)				
Open				3400	1200	1700	3150				
Enclosed				4420	1600	2260	4450				

Notes:

All Generators carry a one year or (1,000) hour's manufacturer's warranty