

Output Power Rating		Prime			Standby ***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	300	240	352	282
1800	60 Hz	480	338	264	386	309

### Switch able speed 1500/1800 rpm

The above kW rating are at 0.8 pf

Guarantied 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 1506A-E88TAG5
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, After Cooled
Combustion System	Direct Injection
Displacement	8.8 Liters
Governor	Electronic
Emissions Regulation	Non-Compliant
Electrical Starting System	24 V Starter Motor and 24V, 45 Amp Alternator with DC Output

### Air System

Air Filter Type	Paper Element (Replaceable)		
Combustion Air Flow Cm/min(cfm)	Prime Standby	50 Hz	60 Hz
		18.3 (648)	-
		19.7 (696)	-
Max Air Filter Intake Restriction	4.0 kpa	-	

### Fuel System

Fuel Filter Type	Fuel Filters with Pre-Filter (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	73	86
	Prime Power	65	77
	75% of Prime Power	48	57
	50% of Prime Power	33	39
Fuel Tank: Open / Close			

### Lubrication System

Lube Oil	API-CI4 SAE 15W-40 (-10°C to 50°C Ambient Temperature)
Lube Oil Capacity	41.0 L
Oil Pan	33.0 L
Oil Filter Type	Full Flow Spin-On Filter
Oil Cooling Method	Water

### Cooling System

Coolant Capacity	30.9 L		
Cooling System	Liquid		
Cooling Fan Air Flow m3/min (cfm)	609 (21507)	-	
Heat Radiation to Room	Prime Standby	50 Hz	60 Hz
		27.6 kW	-
		39.8 kW	-

### Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m3/min (cfm)	Prime	44.1 (1558)	-
	Standby	47.6 (1681)	-
Max Allowable Backpressure	10.0 kpa	-	
Exhaust Gas Max Temperature	Prime Standby	50 Hz	60 Hz
		373°C	-
		410°C	-

Alternator Technical Data		Stamford / or L.S							
Model Number	HCI444C								
No. of Poles	4								
Number of terminals (leads)	12								
A.V.R & Excitation	SX 440								
Regulation	±								
Ingress Protection	IP-21								
Insulation Class	H								
TIF	<40								
THD at Full Load %	2 / 2.1								
THD at No Load %	2.9 / 3.1								
Cooling Air flow-@50 Hz m3 / min (cfm)	32 (1130.06)								
Cooling Air flow-@60 Hz m3 / min (cfm)	39 (1377.27)								
Output Voltage		50 Hz				60 Hz			
V		380	400	415	440	415	440	460	480
kVA		300	300	300	290	-	-	-	-
kW		240	240	240	232	-	-	-	-

Alternator performance data									
Reactance (f.l.c.l.f)	xd %	230.2	208	193.2	166.2	-	-	-	-
	xd' %	17.0	15.3	14.2	12.2	-	-	-	-
	xd'' %	9	8.1	7.5	6.5	-	-	-	-
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)		650	750	950	-	-	-	-	-

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)	73 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	2980	1200	1850	2228
Enclosed	4322	1463	2210	3220

#### Notes:

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