Output Power Rating			Prime		Standby***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	20.3	16.2	22.3	17.8
1800	60 Hz	480	24.2	19.3	26.6	21.3

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 varible 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 availble for 1 hour in every 12 hours operation

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

Engine Technical Data	
Engine Make and Model	Perkins 404D-22G
Cylinder	4 Vertical In-Line
Aspiration	Naturally Aspirated
Combustion System	Indirect Injection
Displacement	2.216 Liters
Governor	Mechanical
Emissions Regulation	EU stage IIIA & US EPA Tier 4
Electrical Starting System	12 Volt Starter Motor and 12 Volt 15 Amp Alternator DC Output

Air System			
Air Filter Type		Split Element (Replaceable)	
Combustion Air Flow Cm/min(cfm)		50 Hz	60 Hz
	Prime	1.45 (51.20)	1.74 (61.44)
	Standby	1.45 (51.20)	1.74 (61.44)
Max Air Filter Intake Restriction		6.4 kpa	6.4 kpa

Fuel System			
Fuel Filter Type		Split Element (Replaceable)	
Recommended Fuel		Class A2 Diesel	
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	6.1 (1.61)	6.9 (1.82)
	Prime Power	5.3 (1.40)	6.2 (1.64)
	75% of Prime Power	4.0 (1.06)	4.8 (1.27)
	50% of Prime Power	2.9 (0.77)	3.5 (0.92)
Fuel Tank: Open / Close		97 L / 114 L	

Lubrication System	
Lube Oil	API-CH-4 or ACEA E5 SAE 15W40 (-10^{O}C to 50^{O}C Ambient Temperature)
Lube Oil Capacity	10.6 L
Oil Pan	8.9 L
Oil Filter Type	Spin-On Full Flow
Oil Cooling Method	N/A

Cooling System			
Coolant Capacity		7.0 L	
Cooling System		Mounted Radiator, Water Cooled	
Cooling Fan Air Flow m3/min (cfm)		40.2 (1419.65)	52.2 (1843.42)
Heat Radiation to Room		50 Hz	60 Hz
	Prime	3.3 kW	3.8 kW
	Standby	4.4 kW	4.6 kW

Exhaust system			
Silencer	Grade	Industrial	
	Size	2"	
	QTY	1	
Exhaust gas flow m3/min (cfm)	Prime	3.64 (128.54)	4.34 (153.26)
	Standby	3.94 (139.13)	4.76 (168.09)
Max Allowable Backpressure		10.2 kpa	10.2 kpa
Exhaust Gas Max Temperature		50 Hz	60 Hz
	Prime	445^{O}C	440^{O}C
	Standby	505^{O}C	510^{O}C

Alternator Technical Data		Stamdford / or L.S							
Model Number		BC1164E							
No. of Poles		4							
Number of terminals (leads)		12							
A.V.R & Excitation		SX 460							
Regulation		± 1%							
Ingress Protection		IP-23							
Insulation Class		H							
TIF		<45							
THD at Full Load %		2 / 2							
THD at No Load %		3.7 / 3.7							
Cooling Air flow-@50 Hz m3 / min (cfm)		5.3 (187.16)							
Cooling Air flow-@60 Hz m3 / min (cfm)		45.8 (204.82)							
Output Voltage		**50 Hz**				**60 Hz**			
V		380	400	415	440	415	440	460	480
kVA		17	17	17	15.5	17.5	18.6	20.4	20.4
kW		13.6	13.6	13.6	12.4	14	14.9	16.3	16.3
Alternator performance data									
Reactance (f.l.cl.f)	xd %	217.2	196	182.7	182.1	224.9	212.7	213.4	196
	xd' %	18.73	16.9	15.70	15.70	19.38	18.34	18.34	16.9
	xd" %	12.74	11.5	10.68	10.68	13.2	12.48	12.48	11.5
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)		32.5	42.5	51.0	¬	26	35	35	52.5

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	4
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Noise Level (@ Free-Field Conditions)	66 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	1600	700	1000	500
Enclosed	1720	760	1060	750

Notes:

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