

Output Power Rating		Prime			Standby ***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	250	200	275	220
1800	60 Hz	480	281	225	313	250

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 1506A-E88TAG3
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, Air to Air Charge Cooled
Combustion System	Direct Injection
Displacement	8.8 Liters
Governor	Electronic
Emissions Regulation	EU Stage II
Electrical Starting System	12 Volt, Starter Motor and 24V, 45 Amp Alternator with DC Output

Air System

Air Filter Type	Dry Paper Element (Replaceable)	
Combustion Air Flow Cm ³ /min(cfm)	Prime	50 Hz
	Standby	60 Hz
Max Air Filter Intake Restriction	6.22 kpa	

Fuel System

Fuel Filter Type	Spin-On with Pre-Filter (Replaceable)	
Recommended Fuel	Class A2 Diesel	
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm
	Standby	1800 rpm
	Prime Power	49.7 (13.13)
	75% of Prime Power	45.0 (11.89)
Fuel Tank: Open / Close	50% of Prime Power	36.0 (9.51)
		24.0 (6.34)
	460 L / 582 L	

Lubrication System

Lube Oil	API-CH4/CG4 or ACEA E3 SAE 15W40 (-10°C to 50°C Ambient Temperature)
Lube Oil Capacity	26.4 L
Oil Pan	22.7 L
Oil Filter Type	Full Flow Spin-On (Replaceable)
Oil Cooling Method	Water

Cooling System

Coolant Capacity	37.2 L	
Cooling System	Mounted Radiator, Water Cooled	
Cooling Fan Air Flow m ³ /min (cfm)	375 (13243)	
Heat Radiation to Room	Prime	50 Hz
	Standby	40 kW
		60 Hz
		44 kW

Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m ³ /min (cfm)	Prime	-	-
	Standby	44.5 (1570.50)	-
Max Allowable Backpressure	10.7 kpa		
Exhaust Gas Max Temperature	Prime	50 Hz	60 Hz
	Standby	-	-
		528°C	

Alternator Technical Data		Standford / or L.S							
Model Number	UCD274K								
No. of Poles	4								
Number of terminals (leads)	12								
A.V.R & Excitation	SX 460								
Regulation	±								
Ingress Protection	IP-23								
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	380	416	440	480
kVA		250	250	250	230	-	-	-	-
kW		200	200	200	184	-	-	-	-
Alternator performance data									
Reactance (f.l.c.l.f)	xd %	229.4	207	192.3	-	-	-	-	-
	xd' %	15.5	14.0	13.0	-	-	-	-	-
	xd'' %	8	7.2	6.7	-	-	-	-	-
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)		510	650	760	-	-	-	-	-
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	2850	1000	1800	2200					
Enclosed	4100	1300	1960	3275					

Notes:

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