

Output Power Rating		Prime		Standby ***		
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	136	109	150	120
1800	60 Hz	480	151	120.5	165.5	132.5

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 1006TAG6
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, Air to Air After Cooled
Combustion System	Direct Injection
Displacement	7.01 Liters
Governor	Electronic / Mechanical
Emissions Regulation	TA Luft
Electrical Starting System	12 Volt Starter Motor and 12 Volt 55 Amp Alternator with DC Output

Air System

Air Filter Type	Dry Element (Replaceable)		
Combustion Air Flow Cm ³ /min(cfm)	Prime	50 Hz 8.38 (295.9)	60 Hz 10.72 (378.6)
	Standby	8.78 (310.1)	11.17 (394.4)
	Max Air Filter Intake Restriction	5.0 kpa	5.0 kpa

Fuel System

Fuel Filter Type	Spin-On Full Flow and Pre-Filter (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	34.6 (9.14)	41.3 (10.91)
	Prime Power	31.5 (8.32)	37.6 (9.93)
	75% of Prime Power	24.1 (6.37)	28.9 (7.64)
	50% of Prime Power	16.5 (4.36)	19.4 (5.13)
Fuel Tank: Open / Close	405 L / 435 L		

Lubrication System

Lube Oil	API-CD / SE or CCMC D4 15W40 (-10°C to 50°C Ambient Temperature)
Lube Oil Capacity	19 L
Oil Pan	16 L
Oil Filter Type	Spin-On Full Flow (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)	154 (5438)	182 (6427)	
Heat Radiation to Room	Prime	50 Hz 15.4 kW	60 Hz 19.0 kW
	Standby	25.7 kW	33.6 kW

Exhaust system

Silencer	Grade	Industrial	
	Size	3"	
	QTY	1	
Exhaust gas flow m ³ /min (cfm)	Prime	24.14 (852.5)	29.75 (1050.6)
	Standby	25.71 (907.9)	31.41 (1109.1)
Max Allowable Backpressure	TBA	6kpa	
Exhaust Gas Max Temperature	Prime	50 Hz 571°C	60 Hz 540°C
	Standby	585°C	551°C

Alternator Technical Data				Standford / or L.S					
Model Number		UCI274F							
No. of Poles		4							
Number of terminals (leads)		12							
A.V.R & Excitation		SX 460							
Regulation		± 1.5%							
Ingress Protection		IP-21							
Insulation Class		H							
TIF		<40							
THD at Full Load %		1.7 / 1.8							
THD at No Load %		2.3 / 2.4							
Cooling Air flow-@50 Hz m ³ / min (cfm)		19.3 (681.57)							
Cooling Air flow-@60 Hz m ³ / min (cfm)		23.0 (812.23)							
Output Voltage		50 Hz				60 Hz			
V		380	400	415	440	415	440	460	480
kVA		150	150	150	125	150	170	180	180
kW		120	120	120	100	120	135	144	144
Alternator performance data									
Reactance (f.l.c.l.f)	xd %	265.9	240	223	165.3	267.6	269.8	261.3	240
	xd' %	16.4	14.8	13.7	10.2	19.6	16.6	16.1	14.8
	xd" %	6.2	6.2	5.8	4.3	6.9	7.0	6.8	6.2
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)		325	400	480	-	250	325	400	480
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)		71 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		2500	775	1425	1325				
Enclosed		3200	1100	1790	1975				

Notes:

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