

PGKT132



60Hz/1800 r.p.m-P.F.0.8				Prime Power	Standby Power	Rated Current	
Genset	Engine	Alternator	Voltage (V)	PH	kW/kVA	kW/kVA	Amps
		N/A UCI274G N/A	240 (220-240)	1	120/150	132/165	625.0
		LSA44.3L10 UCI274E FPA27-1124	380/220	3	120/150	132/165	227.9
FC150X-F R6105B		LSA44.3L10 UCI274E FPA27-1003	208/120	3	120/150	132/165	416.4
	KU TUSBELDSE	LSA44.3M8 UCI274E FPA27-1003	220/127	3	120/150	132/165	393.7
		LSA44.3M6 UCI 274E FPA27-1003	230/132	3	120/150	132/165	376.5
		LSA44.3M6 UCI274D FPA27-1003	480/277	3	120/150	132/165	180.4

Ratings:

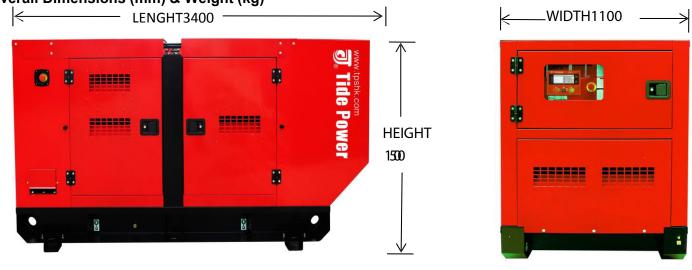
All three Phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor. POWERGEN reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Prime Power:

Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year in accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

Standby Power:

Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27° C.



Weight (kg): 2300

Overall Dimensions (mm) & Weight (kg)

Standard and Optional Accessories

System	Standard 🛛 🕒	Optional O	
	 Standard air filter 	○ Air prefilter	
Air Intake System	 Air filter overload alarm 	 ○ Heavy air filter 	
	● 50°C radiator	⊖ Antifreeze	
	● Low water level alarm ①	O Water jacket heater	
Cooling System	 Fan and belt guard 	,	
	 Discharge valve 		
	 Stainless steel bellow 	O Stainless steel silencer	
Fishering Constant	Residential silencer	\bigcirc Stainless steel exhaust pipe	
Exhaust System	 Complete exhaust pipe 		
	● Rain cap		
	• 8 Hours integrated base fuel tank	○ 6 Hours double wall base fuel tank	
	 Standard fuel filter 	○ Fuel-water separator	
Fuel System	● Fuel level gauge	○ Oil level sensor ② ③	
	● Fuel filling cap	○ Automatic fuel top up system ②	
	● Fuel hose		
	 Standard oil filter 	○ Oil heater	
Lubrication System	Manual oil pump and drain	○ Lube oil level indicator	
		\bigcirc Oil temperature indicator $\textcircled{2}$	
	Shunt or self excited	• PMG or AREP(Leroy-Somer only)	
	Class H insulation	○ Alternator space heaters	
	 H class temperature rise 	○ PT100 winding temperature sensors	
	• DELIXI MCCB	⊖ Weaver AVR	
Alternator	Terminal connection lugs (L1, L2, L3,	○ Weaver prolapse transformer	
and Electric Switch	LN)	○ F class temperature rise	
		○ 4 Pole circuit breaker with leakage protection	
		○ Circuit breaker - 4 pole	
		○ MCCB auxiliary contact and shunt tripping	
		device	
	• Comap Nano Plus for 4 cylinders engine	○ Panel lighting	
Control System	Comap InteliLite AMF20 for 6 cylinders		
	or ECU engine		
	● 67-72 db(A) @ 3 meters	○ Forklift holes	
	4mm -6mm Steel base	○ Enclosure color:	
	 Transportation support leg 		
	Single hook	○ Trailer for off road or on road	
Silent / Base	Power coating enclosure		
	Anti-vibration mounting between engine		
	/alternator and baseframe		
	Emergency stop mounted outside the		
	canopy		
	Standard color: Ral 3020		
	 Battery with bracket and cables 	Low temperature starting batteries	
Start / Charge	Engine battery charger	Battery swtich	
	 3A Mains charger 	High current charger (10A, 20A)	

Remark: ① Not available for Perkins 400 series engines

② When you need the automatic oil top up system, you have to use the electrical oil level sensor.

3 You can choose either electrical oil level sensor or oil temperature sensor.

Engine

Engine specifications		Fuel System	
Manufacture	Kofo	Type injection system	Indirect Injectior
Engine model	R6105BZLDS2	Fuel consumption at 100% standby power	41.8 Litres/hou
Engine type	4 cycle, in-line	Fuel consumption at 100% prime power	38.0 Litres/hou
Engine speed	1800 r.p.m	Fuel consumption at 75% prime power	30.4 Litres/hou
Prime power	140 kW	Fuel consumption at 50% prime power	22.8 Litres/hou
Standby power	154 kW	Fuel consumption at 25% prime power	11.4 Litres/hour
Governor type	Mechanical	Fuel tank capacity	8-12 hours
Steady speed adjusting rario at rated condit	ion ≤5	Lubrication System	
Aspiration: Turbocharged, air-to-	air charge cooling	Oil sump capacity	18 Litres
Displacement	7.01 L	Oil pressure	0.3-0.5 Mpa
Bore * Stroke	105 ×135 mm	Oil pressure at idle speed	≥0.1 Mpa
NO. of cylinders	6	Lubricating method	Pressure lubricatior
Compression ratio	16.0:1	Oil consumption rate	1.63 g/kW.h
Engine idle speed	≪650 rpm	Max continuous oil temperature	105 ℃
Fring order	1-5-3-6-2-4	Cooling system	
Flywheel ring gear teeth number	130	Total system capacity	23 Litres
Noise level @7m	74 dBA	Thermostat operation range	76-85 ℃
Exhaust system		Maximum top tank temperature	96 ℃
Exhaust gas temperature	≤600° C	Electric System	
Exhaust outlet size	66 mm	Starting method	Electric motor star
Air intake system		Electrical system voltage	24\
Maximum air intake restriction		Battery	Maintenance-free
- Standard filter	≤ 2. 5 kPa	Connecting cables	Auailable
- Air filter type	Dry		

Alternator

Alternator			6	0Hz/1800R.P.M
General data Power factor Excitation	$Cos \mathcal{C} = 0.8$ Shunt / Brushless	Insulation class Bearing Altitude		H Singl e ≪ 1000 m
Ratings			Prime Power	Standby Power

Ratings						Prime Power	Standby Power
Brand	Alternator	Number of wires	AVR Model	PH	Voltage (V)	kW/kVA	kW/kVA
Leroy-Somer	N/A				240	N/A	N/A
Stamford	UCI274G	4	AS440	1	(220-240)	120/150	N/A
Tide	N/A				(220 210)	N/A	N/A
Leroy-Somer	LSA44.3L10		R250			118/148	130/163
Stamford	UCI274E	12	AS440	3	380/220	128/160	140/175
Tide	FPA27-1124		SX460			122/152.5	134/167.5
Leroy-Somer	LSA44.3L10		R250			130/163	143/179
Stamford	UCI274E	12	AS440	3	208/120	128/160	140/175
Tide	FPA27-1003		SX460			120/150	132/165
Leroy-Somer	LSA44.3M8		R250			124/155	136/170
Stamford	UCI274E	12	AS440	3	220/127	134/167.5	145/181.3
Tide	FPA27-1003		SX460			120/150	132/165
Leroy-Somer	LSA44.3M6		R250			120/150	132/165
Stamford	UCI 274E	12	AS440	3	230/132	134/167.5	145/181.3
Tide	FPA27-1003		SX460			120/150	132/165
Leroy-Somer	LSA44.3M6		R250			125/156	138/172
Stamford	UCI274D	12	AS440	3	480/277	117/146.3	127/158.8
Tide	FPA27-1003		SX460			120/150	132/165



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Intelligent 3.0

		Comap Nano Plus	Comap InteliLite AMF20	Comap InteliLite AMF25
	Phase voltage	3	3	3
	Wire voltage	3	3	3
	Current	Instrument	3	3
	Frequency	•	•	•
Viewable parameters	Active power	×	•	•
	Reactive power	×	•	•
	Apparent power	×	•	•
	Power factor	×	٠	•
	Electric energy metering	×	×	•
	Abnormal voltage	•	•	•
	Over-current warning	×	•	•
Generator protection	Over current protection	×	•	•
	Over Frequency protection	•	•	•
	Short circuit protection	МССВ	MCCB+O	MCCB+O
	Oil pressure	•	•	•
Engino	Water temperature	•	•	•
Engine figure	Fuel level	О	0	0
J. J	Speed	•	•	•
	Battery voltage	•	•	•
	Elapsed time	•	•	•
	Low oil pressure warning Low oil pressure protection			•
	High temperature warning	•	•	•
Engine protection	High temperature protection	•	•	•
5 1	Overspeed warning	•	•	•
	Overspeed protection	•	•	•
	Charge fault	•	•	•
	Remote start-stop	•	•	•
	AMF	•	•	•
	Programmable input	3	7	7
	Programmable output Port extension	6 USB	7	7
	Remote monitoring	USD ×	0	0
Function	Communication port	×	0	0
	CAN	•	0	•
	Start/Stop time control	×	×	•
	Maintenance tips	×	×	•
	Fault record	×	×	
	Multi-language function	×	•	

O Optional

Automatic Transfer Switch

A.T.S - 4 Poles

(Safety Installation: Detect - Control – Switch System)

POWERGEN offers not only a changeover switch but also an integrated mains detection and switch system for your 24 Hour Power Protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of phase; and also mains automatic re-transfer once it come back.

The system has a wide application such as hospital, bank, telecom, air port, broadcasting station and hotels.

System Advantages

- Automatically transfer and re-transfer load from main power to gen-power without operator intervention operation. (Both automatic and manual)
- ATS Controller (AMF function), seamless integration with Intelligent 5.0
- Available from 32 3200A, better protection for 4 pole switch.
- Available in standard, bypass isolation and service-entrance configurations.
- Configurable in open, closed and programmed transition operating modes.
- Designed to interface seamlessly with POWERGEN generators and switchgear.
- Drip Proof IP23 Enclosure.
- Easy Installation: Wall-mounted & Floor standing
- Comes fully loaded with the technology to do the job.



Rated Current	Breaker Type				
Α	Chinese	ABB	Socomec		
32	×	В	×		
63	А	В	В		
80	×	×	В		
100	А	В	В		
125	×	В	В		
160	В	В	В		
200	×	В	×		
250	С	В	В		
300	×	×	×		
315	×	С	×		
400	С	С	С		
630	С	D	D		
800	D	D	D		
1000	D	D	D		
1250	D	D	D		
1600	D	D	E		
2000	E	Е	E		
2500	Е	Е	E		
3200	E	×	E		
Dimensions : mm					

- A: 400×200×500
- C: 600×400×1200
- B: 500×300×650
- D: 800×600×1400