

PGKT110



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 UCI274F N/A	240 (220-240)	1	100/125	110/138	520.8
		LSA 44.3 M6 UCI 274D FPA27-902	380/220	3	100/125	110/138	189.9
FC425V F		LSA 44.3 M6 UCI 274D FPA27-902	208/120	3	100/125	110/138	347
FC125X-F R6105AZLI	R6105AZLDS2	LSA 44.3 M6 UCI 274D FPA27-902	220/127	3	100/125	110/138	328
		LSA 44.3 M6 UCI 274D FPA27-902	230/132	3	100/125	110/138	313.8
		LSA 44.3 S5 UCI 274C FPA27-902	480/277	3	100/125	110/138	150.4

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.

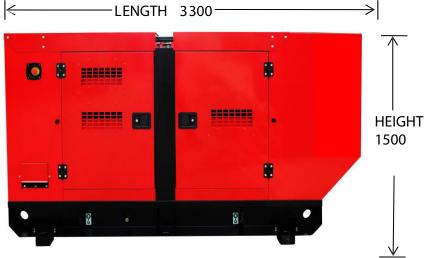
Prime Power:

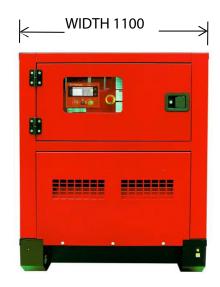
Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year in accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

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 $27\,^\circ\!\mathrm{C}$.

Overall Dimensions (mm) & Weight (kg)





Weight (kg): 2200



Standard and Optional Accessories

Standard and Optio			
System	Standard •	Optional O	
Air Intake System	Standard air filter	○ Air prefilter	
•	Air filter overload alarm	O Heavy air filter	
	● 50°C radiator	○ Antifreeze	
Cooling System	■ Low water level alarm ①	○ Water jacket heater	
Cooming System	● Fan and belt guard		
	Discharge valve		
	Stainless steel bellow	Stainless steel silencer	
5 1 10 1	Residential silencer	O 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	
. ue. Cyclein	Fuel filling cap	2 2	
	Fuel hose	O Automatic fuel top up system ②	
	-	O O'll be a fee	
Lubrication System	Standard oil filterManual oil pump and drain	Oil heater Lube oil level indicator	
Lubrication System	Wandar on pamp and drain		
		Oil temperature indicator ②	
	Shunt or self excited	PMG or AREP (Leroy-Somer only)	
	Class H insulation	Alternator space heaters	
	H class temperature rise	O 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	
		○ ABB MCCB	
		MCCB auxiliary contact and shunt tripping	
		device	
	● Comap Nano Plus for 4 cylinders engine	O 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:	
		Chiclosure color.	
	Transportation support leg	Trailer for off road or on road	
	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	
Start / Charge	1 -	Battery evition	

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

<u>Liigiiie</u>		
Engine specification	ıs	
Manufacture		Kofo
Engine model	R6′	105AZLDS2
Engine type		4 cycle, in-line
Engine speed		1800 r.p.m
Prime power		115.5 kW
Standby power		127 kW
Governor type		Mechanical
Steady speed adjusting	rario at rated condition	≤ 5
Aspiration: T	urbocharged, air-to-air	charge cooling
Displacement		6.75 L
Bore * Stroke		105 ×130 mm
NO. of cylinders		6
Compression ratio		16.0:1
Engine idle speed		≤650 rpm
Fring order		1-5-3-6-2-4
Flywheel ring gear teeth	number	130
Noise level @7m		74 dBA
Exhaust system		
Exhaust gas temperatur	е	≪600℃
Exhaust outlet size		57 mm
Air intake system		
Maximum air intake rest	riction	
- Standard filter		\leq 2.5 kPa
- Air filter type		Dry

Fuel System	
Type injection system	Indirect Injectior
Fuel consumption at 100% standby power	34.5 Litres/hou
Fuel consumption at 100% prime power	31.4 Litres/hou
Fuel consumption at 75% prime power	25.1 Litres/hou
Fuel consumption at 50% prime power	18.8 Litres/hou
Fuel consumption at 25% prime power	9.4 Litres/hour
Fuel tank capacity	8-12 hours
Lubrication System	
Oil sump capacity	18 Litres
Oil pressure	0.3-0.5 Mpa
Oil pressure at idle speed	≥0.1 Mpa
Lubricating method	Pressure lubrication
Oil consumption rate	1.63 g/kW.h
Max continuous oil temperature	105℃
Cooling system	
Total system capacity	23 Litres
Thermostat operation range	76-85 ℃
Maximum top tank temperature	96℃
Electric System	
Starting method	Electric motor star
Electrical system voltage	24\
Battery	Maintenance-free
Connecting cables	Auailable

Alternator 60Hz/1800R.P.M

General dataPower factor $\cos \emptyset = 0.8$ ExcitationShunt / Brushless

nsulation class	Н
Bearing	Single
Altitude	≤ 1000 m

Ratings						Prime Power	Standby Power
Brand	Alternator	Number of wires	AVR Model	PH	Voltage (V)	kW/kVA	kW/kVA
Leroy-Somer Stamford Tide	N/A UCI274F N/A	4	AS440	1	240 (220-240)	108/135	N/A
Leroy-Somer Stamford Tide	LSA 44.3 M6 UCI 274D FPA27-902	12	R250 AS440 SX460	3	380/220	99/124 105/131 100/125	109/136 114/142.5 110/137.5
Leroy-Somer Stamford Tide	LSA 44.3 M6 UCI 274D FPA27-902	12	R250 AS440 SX460	3	208/120	108/135 105/131 108/135	119/149 114/142.5 120/150
Leroy-Somer Stamford Tide	LSA 44.3 M6 UCI 274D FPA27-902	12	R250 AS440 SX460	3	220/127	114/143 110/138 108/135	126/158 120/150 120/150
Leroy-Somer Stamford Tide	LSA 44.3 M6 UCI 274D FPA27-902	12	R250 AS440 SX460	3	230/132	96/120 110/138 96/120	105/131 120/150 106/132.5
Leroy-Somer Stamford Tide	LSA 44.3 S5 UCI 274C FPA27-902	12	R250 AS440 SX460	3	480/277	100/125 100/125 108/135	110/138 110/137.5 120/150









		Comap Nano Plus	Comap InteliLite AMF20	Comap InteliLite AMF25
	Phase voltage	3	3	3
	Wire voltage	3	3	3
	Current	Instrument	3	3
		•	•	•
Viewahla naramatara	Frequency	×	•	
Viewable parameters	Active power		_	•
	Reactive power			_
	Apparent power	X	•	•
	Power factor	×	•	•
	Electric energy metering	X	×	•
	Abnormal voltage	•	•	•
	Over-current warning	×	•	•
Generator protection	Over current protection	×	•	•
Contractor protoculors	Over Frequency protection		•	
		Waan	Maan . O	WGGB : C
	Short circuit protection	MCCB	MCCB+O	MCCB+O
	Oil pressure	•	•	•
Engine	Water temperature	•	•	•
figure	Fuel level	0	0	0
· ·	Speed	•	•	•
	Battery voltage	•	•	•
	Elapsed time	•	•	•
	Low oil pressure warning	•	•	•
	Low oil pressure protection	•		•
Faring masterias	High temperature warning	•	•	•
Engine protection	High temperature protection	•	•	•
	Overspeed warning	•	•	•
	Overspeed protection Charge fault			
	Remote start-stop	•	•	•
	AMF	•		•
	Programmable input	3	7	7
	Programmable output	6	7	7
	Port extension	USB	0	0
Function	Remote monitoring	×	0	0
Function	Communication port	X	0	0
	CAN	•	0	•
	Start/Stop time control	X	X	•
	Maintenance tips	X	X	
	Fault record	×	×	•
	Multi-language function	×	•	

Remark:

Standard

Optional

 \times NA

(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	Е	
2000	E	E	E	
2500	Е	Е	Е	
3200	Е	×	Е	

Dimensions : mm

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

E: 1000×800×1600