



PGKT60KW

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
	R4105ZDS2	LSA 44.3 S3 UCI224G FPA22-546	240 (220-240)	1	50/63	60/75	262.5
		LSA 44.3 S2 UCI 224D <mark>FPA22-454</mark>	380/220	3	50/63	60/75	95.0
FC63X-F		LSA 42.3 L9 UCI 224E FPA22-454	208/120	3	50/63	60/75	173.5
FC03A-F		LSA 42.3 L9 UCI 224D <mark>FPA22-454</mark>	220/127	3	50/63	60/75	164.0
		LSA 42.3 L9 UCI 224D FPA22-454	230/132	3	50/63	60/75	156.9
Patinaca		LSA 42.3 M8 UCI 224D <mark>FPA22-454</mark>	480/277	3	50/63	60/75	75.2

Ratings:

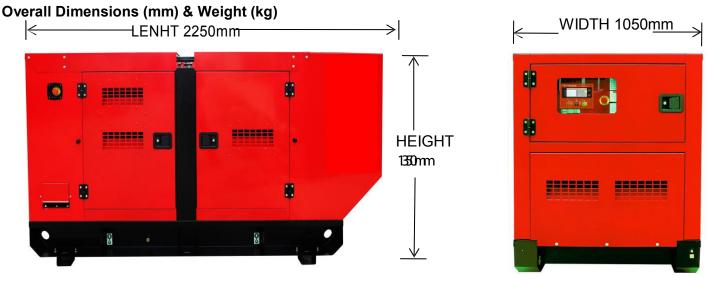
All three Phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor. POWERGEN reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Prime Power:

Standby 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.

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): 1500



Standard and Optional Accessories

System	Standard o	Optional O
	 Standard air filter 	 ○ Air prefilter
Air Intake System	 Air filter overload alarm 	⊖ Heavy air filter
	● 50°C radiator	⊖ Antifreeze
Cooling System	• Low water level alarm 1	○ Water jacket heater
Cooling System	Fan and belt guard	
	Discharge valve	
	 Stainless steel bellow 	○ Stainless steel silencer
Exhaust System	Residential silencer	○ Stainless steel exhaust pipe
Exhauot Oyotom	Complete exhaust pipe	
	● Rain cap	
	8 Hours integrated base fuel tank	\bigcirc 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	C Lube oil level indicator
		O Oil temperature indicator 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	
Silent / Base	Anti-vibration mounting between engine	
Silent / Base	 Anti-vibration mounting between engine /alternator and baseframe 	
Silent / Base	Anti-vibration mounting between engine	
Silent / Base	 Anti-vibration mounting between engine /alternator and baseframe 	
Silent / Base	 Anti-vibration mounting between engine /alternator and baseframe Emergency stop mounted outside the canopy Standard color: Ral 3020 	
	 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
Silent / Base Start / Charge	 Anti-vibration mounting between engine /alternator and baseframe Emergency stop mounted outside the canopy Standard color: Ral 3020 	Low temperature starting batteries Battery swtich

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.

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Engine specifications		Fuel System	
Manufacture	Kofo	Type injection system	Indirect Injectior
Engine model	R4105ZDS2	Fuel consumption at 100% standby power	17.9 Litres/hou
Engine type	4 cycle, in-line		16.3 Litres/hou
Engine speed	1800 r.p.m		13.0 Litres/hou
Prime power	60 kW		9.8 Litres/hou
Standby power	66 kW		4.9 Litres/hour
Governor type	Mechanical	Fuel tank capacity	8-12 hours
Steady speed adjusting rario at rated condition	n ≼5	Lubrication System	0-12 110013
Aspiration:	Turbochargeo		15 Litres
Displacement	3.61 L	Oil pressure	0.3-0.5 Mpa
Bore * Stroke	105 ×125 mm		≥0.1 Mpa
NO. of cylinders	4	Lubricating method	Pressure lubrication
Compression ratio	17.0:1	Oil consumption rate	1.63 g/kW.h
Engine idle speed	≪650 rpm	Max continuous oil temperature	105℃
Fring order	1-3-4-2	Cooling system	100 0
Flywheel ring gear teeth number	130	Total system capacity	16 Litres
Noise level @7m	71 dBA	Thermostat operation range	76-85 ℃
Exhaust system	-	Maximum top tank temperature	70-85°€ 96°C
Exhaust gas temperature	≪ 600 °C	Electric System	90 C
Exhaust outlet size	63 mm	Starting method	Electric motor star
Air intake system		Electrical system voltage	24\
Maximum air intake restriction		Battery	Maintenance-free
- Standard filter	≪1.20 kPa	Connecting cables	Auailable
- Air filter type	Dry		

Alternator

General data		Insulation class	Н
Power factor	Cos arphi = 0.8	Bearing	Single
Excitation	Shunt / Brushless	Altitude	≤ 1000 m

Ratings						Prime Power	Standby Power
Brand	Alternator	Number of wires	AVR Model	PH	Voltage (V)	kW/kVA	kW/kVA
Leroy-Somer	LSA 44.3 S3		R250		240	54/68	60/75
Stamford	UCI224G	4	AS440	1	240 (220-240)	56/70	N/A
Tide	FPA22-546		SX460			51/64	56/70
Leroy-Somer	LSA 44.3 S2		R250			55/69	61/76
Stamford	UCI 224D	12	AS440	3	380/220	50/63	53/66
Tide	FPA22-454		SX460			50/62.5	55/69
Leroy-Somer	LSA 42.3 L9		R220			52/65	57.2/71.5
Stamford	UCI 224E	12	AS440	3	208/120	54/67.5	58/72.5
Tide	FPA22-454		SX460			54//67.5	60/75
Leroy-Somer	LSA 42.3 L9		R220			55/69	60.7/75.9
Stamford	UCI 224D	12	AS440	3	220/127	50/63	53/66
Tide	FPA22-454		SX460			54//67.5	60/75
Leroy-Somer	LSA 42.3 L9		R220			57.6/72	64/80
Stamford	UCI 224D	12	AS440	3	230/132	50/63	53/66
Tide	FPA22-454		SX460			54//67.5	60/75
Leroy-Somer	LSA 42.3 M8		R220			50/63	55/69
Stamford	UCI 224D	12	AS440	3	480/277	52/65	57/71.3
Tide	FPA22-454		SX460			54//67.5	60/75

60Hz/1800R.P.M



C Tide Power subsport 2 C Tide Power subsport

Control System

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

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	E	E		
2500	Е	Е	E		
3200	E	×	E		
Dimensions : mm					

- A: 400×200×500
- C: 600×400×1200
- E: 1000×800×1600
- B: 500×300×650
- D: 800×600×1400