



PGKT44

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
		LSA 44.3 S3 UCI224E FPA22-454	240 (220-240)	1	40/50	45/56	208.3
		LSA42.3M8 PI144K FPA22-403	380/220	3	40/50	45/56	76
ECASY E	F. NAMOS DOG	LSA42.3M7 PI144K FPA22-342	208/120	3	40/50	45/56	138.8
FC45X-F N4105DS2	N4103D32	LSA 42.3 S5 PI144K FPA22-342	220/127	3	40/50	45/56	131.2
		LSA 42.3 S5 PI144K FPA22-342	230/132	3	40/50	45/56	125.5
		LSA42.3S5 PI144J FPA22-342	480/277	3	40/50	45/56	60.1

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.

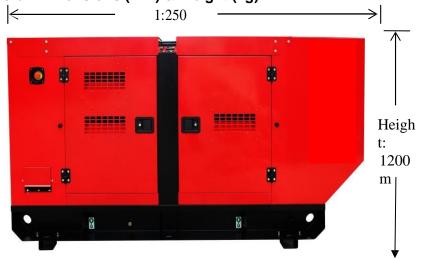
Prime Power:

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.

Overall Dimensions (mm) & Weight (kg)





Weight (kg): 1400

Standard and Optional Accessories

Standard and Option	Mai Accessories		
System	Standard •	Optional o	
Air Intake System	Standard air filter	Air prefilter	
All Illiane System	Air filter overload alarm	○ Heavy air filter	
	• 50° radiator	Antifreeze	
	Low water level alarm (1)	Water jacket heater	
Cooling System	• Fan and belt guard	VVater jacket ricater	
	Discharge valve		
	Stainless steel bellow	Stainless steel silencer	
	Residential silencer	Stainless steel shericer 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	
		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	
		o 4 Pole circuit breaker with leakage protection	
		o Circuit breaker - 4 pole	
		○ ABB MCCB	
		MCCB auxiliary contact and shunt tripping	
		device	
		○ Panel lighting	
Control System			
	- 67 72 db/A\ @ 2 motors	Forklift holes	
	• 67-72 db(A) @ 3 meters • 4mm -6mm Steel base		
		d Enclosure color:	
	Transportation support leg Single healt	Trailer for off road or on road	
	Single hook Dever posting analysis	Trailer for off road or on road	
Silent / Base	Power coating enclosure Anti-vibration required by the transporting to the trans		
	Anti-vibration mounting between engine Alternator and baseframe.		
	/alternator and baseframe		
	Emergency stop mounted outside the		
	canopy		
	Standard color: Ral 3020 Rettery with breaket and cables	Lauritana anatura at-riis a h-titalia	
Start / Charge	Battery with bracket and cablesEngine battery charger	Low temperature starting batteries	
Glait / Charge	3A Mains charger	Battery swtich	

3A Mains charger

High current charger (10A, 20A)

Remark:

- $\widehat{\underline{\scriptsize \scriptsize 0}}$ 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 Injection
Engine model	N4105DS2	Fuel consumption at 100% standby power	16.0 Litres/hou
English tops	A avala in lin	Fuel consumption at 100% prime newer	14.6 Litres/hou
Engine type	•	Fuel consumption at 100% prime power	14.6 Litres/hou
Engine speed	•	Fuel consumption at 75% prime power	
Prime power		Fuel consumption at 50% prime power	8.8 Litres/hou
Standby power		Fuel consumption at 25% prime power	4.4 Litres/hou
Governor type	Mechanical	Fuel tank capacity	8-12 hours
Steady speed adjusting rario at rated condi	tion ≤5	Lubrication System	
Aspiration:	Turcharge	Oil sump capacity	13 Litres
Displacement	3.61 L Bore	Oil pressure	0.2-0.4 Mpa
* Stroke	00 ×115 mm NO. o	Oil pressure at idle speed	≥0.1 Mpa
cylinders	4	Lubricating method	Pressure lubrication
Compression ratio	19.0:1	Oil consumption rate	2.04 g/kW.h
Engine idle speed	≤650 rpm	Max continuous oil temperature	105℃
Fring order	1-3-4-2	Cooling system	
Flywheel ring gear teeth number	130	Total system capacity	13 Litre
Noise level @7m	70 dBA	Thermostat operation range	76-85 ℃
Exhaust system		Maximum top tank temperature	96℃
Exhaust gas temperature	<600℃	Electric System	
Exhaust outlet size	63 mm	Starting method	Electric motor sta
Air intake system		Electrical system voltage	12
Maximum air intake restriction		Battery	Maintenance-fre
- Standard filter	≤1.20 kPa	Connecting cables	Auailable
- Air filter type	Dry		

Alternator 60Hz/1800R.P.M

Michiaco			
General data		Insulation class	Н
Power factor	$Cos \mathfrak{k} = 0.8$	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 Stamford Tide	LSA 44.3 S3 UCI224E FPA22-454	4	R250 AS440 SX460	1	240 (220-240)	54/68 40/50 43/54	60/75 N/A 47/59
Leroy-Somer Stamford Tide	LSA42.3M8 PI144K FPA22-403	12	R220 AS480 SX460	3	380/220	41.2/51.5 44/55 44/55	45.3/56.7 48/60 48/60
Leroy-Somer Stamford Tide	LSA42.3M7 PI144K FPA22-342	12	R220 AS480 SX460	3	208/120	40/50 40/50 40/50	44/55 44/55 45/56
Leroy-Somer Stamford Tide	LSA 42.3 S5 PI144K FPA22-342	12	R220 AS480 SX460	3	220/127	39.2/49 42/52.5 40/50	43/53.9 45/56.3 45/56
Leroy-Somer Stamford Tide	LSA 42.3 S5 PI144K FPA22-342	12	R220 AS480 SX460	3	230/132	39.6/49.5 42/52.5 40/50	43.6/54.5 45/56.3 45/56
Leroy-Somer Stamford	LSA42.3S5 PI144J FPA22-342	12	R220 AS480 SX460	3	480/277	40/50 40/50 40/50	44/55 45/56.3 45/56









		Comap Nano Plus	Comap InteliLite	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	X	•	•
	Electric energy metering	×	×	•
	Abnormal voltage	•	•	•
	Over-current warning	×	•	•
Generator protection	Over current protection	×	•	•
Generator protection	Over Frequency protection	•	•	•
	Short circuit protection	MCCB	MCCB+0	MCCB+○
	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	3	7	7
	Programmable output	6	7	7
	Port extension	USB	0	0
Franctic -	Remote monitoring	X	0	0
Function	Communication port	X	0	o CAN
		Start/Stop time control		×
	× • Maintenance tips	S	×	×
	Fault record	X	×	•
	Multi-language function	×	•	•
Remark: • Standard	o 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. (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	Е	Е	E		
2500	Е	Е	Е		
3200	E	×	E		

Dimensions: mm

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

E:1000x800x1600