





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
		LSA42.3S5 PI144H FPA18-2510	240 (220-240)	1	26/32.5	28/35	125.0
		PI144E FPA18-229	380/220	3	<mark>26/32.5</mark>	<mark>28/35</mark>	45.6
FC30X-F	495DS2	LSA42.3VS1 PI144F FPA18-208	208/120	3	24/30	26/33	83.3
		PI144E FPA18-208	220/127	3	24/30	26/33	78.7
		PI144E FPA18-208	230/132	3	24/30	26/33	75.3
		LSA42.3VS1 PI144E FPA18-208	480/277	3	24/30	26/33	36.1

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





Weight (kg): 1150

Standard and optional accessories

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

Engine

Engine specifications	
Manufacture	Kofo
Engine model	495DS2
Engine type	4 cycle, in-
line Engine speed	1800
r.p.m Prime power	
26 kW Standby power	
28 kW Governor type	
Mechanical Steady speed adjusting ra	rio at rated condition
≤5	
Aspiration:	Naturally aspirated
Displacement	3.26 L Bore
Stroke	95 ×115 mm NO. o
cylinders	4
Compression ratio	19.0:1
Engine idle speed	≤650 rpm
Fring order	1-3-4-2
Flywheel ring gear teeth number	130
Noise level @7m	68 dBA
Exhaust system	
Exhaust gas temperature	≥600°€
Exhaust outlet size	47 mm
Air intake system	
Maximum air intake restriction	
- Standard filter	≤1.20 kPa
- Air filter type	Dry

Indirect Injection
r 10.0 Litres/hou
9.1 Litres/hou
7.3 Litres/hou
5.5 Litres/hou
2.7 Litres/hour
8-12 hours
13 Litres
0.2-0.4 Mp
≥0.1 Mp
Pressure lubrication
2.04 g/kW.h
100℃
13 Litre
76-85 ℃
96℃
Electric motor star
12\
Maintenance-free
Auailable

Alternator 60Hz/1800R.P.M

General Data	
factor	$Cos \mathfrak{t} = 0.8$
Excitation	Shunt / Brushless

nsulation class	H Power
Bearing	Single
Altitude	≤ 1000 m

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Ratings						Prime Power	Standby Power
Brand	Alternator	Number of wire	s AVR Model	PH	Voltage (V)	kW/kVA	kW/kVA
Leroy-Somer Stamford Tide	LSA42.3S5 PI144H FPA18-2510	4	R220 AS480 SX460	1	240 (220-240)	24/30 23.8/29.8 26/32.5	26.4/33 26.2/32.8 28/3
Leroy-Somer Stamford	LSA42.3VS2 PI144E FPA18-229	12	R220 AS480 SX460	3	380/220	23.7/29.9 24/30 <mark>26/32.5</mark>	26/32.5 26.2/32.7 <mark>28/35</mark>
Leroy-Somer Stamford Tide	LSA42.3VS1 PI144F FPA18-208	12	R220 AS480 SX460	3	208/120	25/31.3 24.2/30.3 24/30	27.5/34.4 26.6/33.3 26.4/33
Leroy-Somer Stamford	LSA42.3VS1 PI144E	12	R220 AS480	3	220/127	25.2/31.5 23.5/29.4	27.7/34.7 25.8/32.3
Tide Leroy-Somer Stamford Tide	FPA18-208 LSA42.3VS1 PI144E FPA18-208	12	R220 AS480 SX460	3	230/132	24/30 25.2/31.5 24.2/30.3 24/30	26.4/33 27.7/34.7 26.6/33.3 26.4/33
Leroy-Somer Stamford Tide	LSA42.3VS1 PI144E FPA18-208	12	R220 AS480 SX460	3	480/277	25.2/31.5 25/31.3 24/30	27.7/34.7 27.5/34.4 26.4/33



CONTROL SYSTEM





Comap Nano Plus

InteliLite

	Phase voltage	3	3	3
	Wire voltage	3	3	3
	Current	Instrument	3	3
	Frequency	•	•	•
Viewable parameters	Active power	×	•	•
viewabie parameters	Reactive power	×	•	•
		×	_	
	Apparent power	x x	•	
	Power factor	^	·	
	Electric energy metering	×	×	•
	Abnormal voltage	•	•	•
	Over-current warning	×	•	•
Generator protection	Over current protection	×	•	•
Protocular	Over Frequency protection	•	•	•
	Short circuit protection	MCCB	MCCB+0	MCCB+0
	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
Function	Port extension	USB	0	0
	Remote monitoring	X	0	0
	Communication port	X	0	o CAN
		Start/Stop time control		×
	× • Maintenance t	ips	×	×
	Fault record	X	×	•
	Multi-language function	×	•	•
Remark: • Standard	o Optional	× NA		

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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. (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	Е	Е		
2500	E	Е	Е		
3200	E	×	Е		

Dimensions : mm

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

E:1000x800x1600