





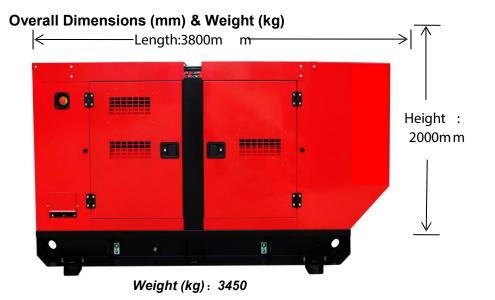
60Hz/1800 r.p.m-P.F.0.8				Prime Power	Standby Power	Rated Current	
Genset	Engine	Alternator	Voltage (V)	PH	kW/kVA	kW/kVA	Amps
FC281X-P 15		LSA46.2L9 UCDI274J FPA31-2202	380/220	3	225/281	250/313	427.3
		LSA46.2L9 UCDI274K FPA27-20011	208/120	3	225/281	250/313	780.7
	1506A-E88TAG3	LSA46.2L6 UCDI274J FPA27-20011	220/127	3	225/281	250/313	738.1
		LSA46.2L6 UCDI274J FPA27-20011	230/132	3	225/281	250/313	706.0
		LSA46.2L6 UCDI274J	480/277	3	225/281	250/313	338.3

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:









Staridard and Option System	Standard •	Optional O
C)Citim	Standard air filter	
Air Intake System	Air filter overload alarm	O Air prefilter
	● 50°C radiator	○ Heavy air filter○ Antifreeze
	Low water level alarm (1)	Water jacket heater
Cooling System		Water jacket fleater
	Fan and belt guard	
	Discharge valveStainless steel bellow	Stainless steel silencer
	Residential silencer	Stainless steel silericer 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
r dor Gyotom	Fuel filling cap	Automatic fuel top up system ②
	• Fuel hose	Automatic ruer top up system 2
	Standard oil filter	Oil heater
Lubrication System	Manual oil pump and drain	Lube oil level indicator
		○ 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
		O Circuit breaker - 4 pole
		O 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:
	Transportation support leg	
	Single hook	○ Trailer for off road or on road
Silent / Base	Power coating enclosure	
Silerit/ base	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



<u>Liigiiie</u>	
Engine specificatio	ns
Manufacture	Perkins
Engine model	1506A-E88TAG3
Engine type	4 stroke, In-line, 6-cylinde
Engine speed	1800 r.p.m
Prime power	257 kW
Standby power	284 kW
Governor type	Electronic
Air intake way	Air to air after cooled, turbocharged
Displacement	8.8 Լ
Cylinder bore * stroke	112mm × 149mm
NO. of cylinders	6
Compression ratio	16.1:1
Brake mean effective p	oressure 2045-2250 kPa
Mean piston speed	8.9 m/s
Combustion air flow	18.6 m³/mir
Noise level @7m	73 dBA
Exhaust system	
Exhaust gas flow	45.3 m³/mir
Exhaust gas temperatu	ıre 477 ℃
Maximum back pressu	re 10 kPa
Aftertreatment exhaust	outlet connection N/A
Air intake system	
Maximum air intake res	striction
- Clean filter	3.7 kPa
- Dirty filter	6.2 kPa
- Air filter type	Dry paper element

Lubrication system	
Total lubrication system capacity	41 Litres
Sump capacity only	36 Litres
Oil temperature (in sump) maximum	120 ℃
Oil temperature (in sump) normal continuou	115 ℃
Fuel system	
Type of injection	Direct injection
Fuel consumption at 100% standby power	69.8 Litres/hou
Fuel consumption at 100% prime power	63.1 Litres/hou
Fuel consumption at 75% prime power	47.5 Litres/hou
Fuel consumption at 50% prime power	33.1 Litres/hou
Fuel consumption at 25% prime power	18.9 Litres/hour
Fuel tank capacity	6 hours
Cooling system	
Total system capacity	29.6 Litres
- Engine capacity	13.9 Litres
- With radiator	12.6 Litres
Thermostat operation range	87-98 ℃
Maximum top tank temperature	107°C
Electric system	
Electrical system voltage	24 V
Battery	Maintenance-free
Connecting cables	Auailable
Energy balance	
Energy to radiation	12-12 kW
Energy to exhaust	191-204 kW
Energy to coolant	115-120 kW

Alternator______60Hz/1800R.P.M

Insulation 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	LSA46.2L9		R250			237/296	261/326
Stamford	UCDI274J	12	AS440	3	380/220	240/300	260/325
Tide	FPA31-2202		SX460			240/300	264/330
Leroy-Somer	LSA46.2L9		R250			253/316	278/348
Stamford	UCDI274K	12	AS440	3	208/120	232.8/291	249.6/312
Tide	FPA27-20011		SX460			240/300	264/330
Leroy-Somer	LSA46.2L6		R250			231/289	254/317
Stamford	UCDI274J	12	AS440	3	220/127	224.8/281	244.8/306
Tide	FPA27-20011		SX460			240/300	264/330
Leroy-Somer	LSA46.2L6		R250			236/295	262/328
Stamford	UCDI274J	12	AS440	3	230/132	235.2/294	255.2/319
Tide	FPA27-20011		SX460			240/300	264/330
Leroy-Somer	LSA46.2L6		R250			240/300	270/337
Stamford	UCDI274J	12	AS440	3	480/277	240/300	260/325
Tide	FPA27-20011		SX460			240/300	264/330









		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	X	•	•
	Apparent power	X	•	•
	Power factor	×	•	•
	Electric energy metering	×	×	•
	Abnormal voltage	•	•	•
	Over-current warning	×	•	•
Generator protection	Over current protection	×	•	•
Generator 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	3	7	7
	Programmable output	6	7	7
	Port extension	USB	0	0
Function	Remote monitoring	×	0	0
Function	Communication port	×	0	0
	CAN	•	0	•
	Start/Stop time control	X	X	•
	Maintenance tips	X	×	•
	Fault record	X	×	•
	Multi-language function	X	•	•

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.
 (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 TIDE POWER 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	Е	Е	E		
2500	Е	Е	E		
3200	E	×	E		

Dimensions : mm

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

E: 1000×800×1600



Controller

StandardParameters

- Gen phase voltage
- Generator frequency
- Engine speed
- Battery voltage
- Engine running hours cou
- Engine temperature
- Oil pressure



WarningandShutdownAlarms

- Low oil pressure
- High engine temperature
- Over speed
- Under speed
- Start failure
- Stop failure
- Emergency stop
- High/low battery voltage
- Aux. shutdown alarm
- Aux. Warning