

PGDLS200



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
		LSA46.2L6	380/220	3	184/230	200/250	349.5
		UCI 274H					
		FPA27-18010					
	P086TI	LSA46.2L6	208/120	3	184/230	200/250	638.4
		UCI 274H					
FC230X-K		FPA27-1508					
		LSA46.2M5	220/127	3	184/230	200/250	603.6
		UCI 274H					
		FPA27-1508					
		LSA46.2M5	230/132	3	184/230	200/250	577.4
		UCI 274H					
		FPA27-1508					
		LSA46.2M3	480/277	3	184/230	200/250	276.7
		UCI 274G					
		FPA27-1508					

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.

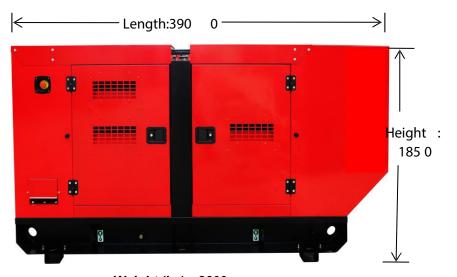
Prime Power:

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)









Standard and optional accessories

System	Standard	Ontional	
Cystom -	Standard Standard air filter	Optional O	
Air Intake System	Air filter overload alarm	O Air prefilter	
		O Heavy air filter	
	● 50°C radiator	O Antifreeze	
Cooling System	Low water level alarm	Water jacket heater	
	Fan and belt guard		
	Discharge valve		
	Stainless steel bellowResidential silencer	Stainless steel silencerStainless steel exhaust pipe	
Exhaust System	Complete exhaust pipe	Stairliess steel 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 ① ②	
	Fuel filling cap	O Automatic fuel top up system ①	
	Fuel hose		
	Standard oil filter	Oil heater	
Lubrication System	Manual oil pump and drain	Lube oil level indicator	
		Oil temperature indicator ①	
	Shunt or self excited	O 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	
		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		
Onemy 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 When you need the automatic oil top up system, you have to use the electrical oil level sensor.
- ② You can choose either electrical oil level sensor or oil temperature sensor.

Engine

Liigiiie			
Engine specifications		Lubrication System	
Manufacture	DOOSAN DAEWOO	Oil Capacity (Max Min.)	15.5-12 Litre
Engine Model	P086TI	Lubrication Method Fully force	ed pressure feed typ
Engine Type	4 cycle, in-line	Oil Pump Gear Type Drive	n by Crank-shaft Gea
Engine Speed	1800 r.p.m	Maximum oil temperature	120 ℃
Prime Power	205kW	Fuel System	
Standby Power	223kW	Type Injection System	Direct Injection
Governor Type	Electronic	Fuel feed pump Capacity	175 liters / h
Aspiration	Turbo charged & intercooled	Fuel Consumption at 100% Standby Powe	er 56.8 Litres/hou
Displacement	8.071 L	Fuel Consumption at 100% Prime Power	50.6 Litres/hou
Bore * Stroke	111mm × 139mm	Fuel Consumption at 75% Prime Power	37.7 Litres/hou
NO. of Cylinders	6	Fuel Consumption at 50% Prime Power	25.1 Litres/hou
Compression Ratio	16.4:1	Fuel Consumption at 25% Prime Power	13.8 Litres/hour
Intake Air Flow	22.33 m3/min	Fuel Tank Capacity	8 hours
Rotation Counte	er clockwise viewed from flywheel	Cooling System	
Mean Piston Speed	8.34 m/s	Coolant Capacity- Engine Only	14 Litre
Noise Level @3m	67-72 dBA	Coolant Capacity - with Radiator	44 Litre
Exhaust System		Standard Thermostat (Modulating) Range	71-85°
Exhaust Gas Flow	40.9 m3/min	Maximum for Standby and Prime	103 °C
Exhaust Gas Temperature	e 509℃	Coolant Flow Rate	166 liters / min
Maximum Back Pressure	5.9 kPa	Electric System	
Exhaust Pipe Size	N/A	Electrical System Voltage	24\
Air Intake System		Battery	Maintenance-free
Max. static pressure after Radiator 0.125 kPa		Connecting Cables Auai	
Maximum Intake Air Restr	riction	Thermal Data	
. With Clean Filter Elemen	nt 2.16 kPa	Radiated Heat to Ambient 18	
. With Dirty Filter Element	6.23 kPa	Heat Rejection to Coolant 77.5-	
		Heat Rejection to Exhaust	178.3-200.2 kW
Altornotor		-	60U=/4900D D M

Alternator 60Hz/1800R.P.M

General Data	
Power Factor	$Cos \mathcal{C} = 0.8$
Excitation	Shunt / Brushless

Insulation Class	H
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	LSA46.2L6		R250			206/257	228/285
Stamford	UCI 274H	12	AS440	3	380/220	190/237.5	205/256.3
Tide	FPA27-18010		SX440			200/250	220/275
Leroy-Somer	LSA46.2L6		R250			221/276	243/304
Stamford	UCI 274H	12	AS440	3	208/120	190/237.5	205/256.3
Tide	FPA27-1508		SX440			180/225	200/250
Leroy-Somer	LSA46.2M5		R250			184/230	202/252
Stamford	UCI 274H	12	AS440	3	220/127	196/245	212/265
Tide	FPA27-1508		SX440			180/225	200/250
Leroy-Somer	LSA46.2M5		R250			192/240	210/263
Stamford	UCI 274H	12	AS440	3	230/132	196/245	212/265
Tide	FPA27-1508		SX440			180/225	200/250
Leroy-Somer	LSA46.2M3		R250			182/228	204/255
Stamford	UCI 274G	12	AS440	3	480/277	185.1/231.4	202.6/253.3
Tide	FPA27-1508		SX440			180/225	200/250









		Comap Nano Plus	Comap InteliLite AMF20	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	×	•	•
	Electric energy metering	×	×	•
	Abnormal voltage	•	•	•
	Over-current warning	X	•	•
Generator protection	Over current protection	×	•	•
•	Over Frequency protection	•	•	•
	Short circuit protection	MCCB	MCCB+O	MCCB+O
	Oil pressure	•	•	•
	Water temperature	•	•	•
Engine figure	Fuel level	0	0	0
ngaro	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
	Remote monitoring	X	0	0
Function	Communication port	×	0	0
	CAN	•	0	•
	Start/Stop time control	×	×	•
	Maintenance tips	×	×	•
	Fault record	X	X	•
	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.
 (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	Breakey 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	E	E	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