





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
		HCI544E	240 (220-240)	1	200/250	220/275	1145.8
		LSA46.2L9					
		UCDI274J	380/220	3	200/250	220/275	417.8
		TPA314M3					
		LSA46.2L6	416/240	3	200/250	220/275	381.7
FC250X-C	6LTAA8.9-G2	UCDI274K					
1 0250/1 0	0217710.5 02	TPA314S2					
		LSA46.2L6	440-460	3	200/250	220/275	360.9 (440V) 345.2 (460V)
		UCDI274J					
		TPA274L10					
		LSA46.2L6	480/277	3	200/250	220/275	330.8
		UCDI274J					
		TPA274L9					

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.

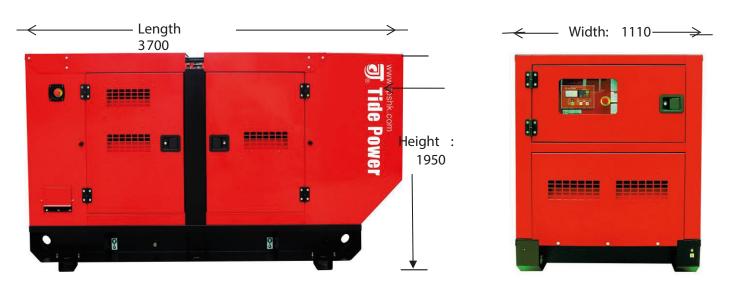
Prime Power:

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 $27\,^{\circ}$ C.

Overall Dimensions (mm) & Weight (kg)



Weight (kg): 2425



Standard and optional accessories

Standard and optio			
System	Standard •	Optional O	
Air Intake System	Standard air filter	○ Air prefilter	
	Air filter overload alarm	○ Heavy air filter	
	● 50℃ radiator	○ Antifreeze	
Cooling System	Low water level alarm	○ 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	
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 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	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	
	■ Intelligent 1.0 for 4 cylinders engine	O Panel lighting	
Control System	 Intelligent 3.0 for 6 cylinders engine 		
	● Intelligent 5.0 for 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	
	Power coating enclosure	Trailer for our road or our road	
Silent / Base	Anti-vibration mounting between engine		
	/alternator and baseframe		
	Emergency stop mounted outside the canony		
	canopy Standard color: Ral 3020		
		Low temperature starting batteries	
Start / Charge	Battery with bracket and cablesEngine battery charger	Low temperature starting batteries	
Start / Snarye	3A Mains charger	Battery swtich	
	To Ivialità Chargei	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 specifications	
Manufacture	DCEC Cummins
Engine model	6LTAA8.9-G2
Engine type	4 cycle, in-line
Engine speed	1800 r.p.m
Prime power	235kW/315hp
Standby power	258kW/346hp
Governor type	Electronic
Governor make / model	BYC P7100
Aspiration: Turbocharged and	Charge Air Cooled
Displacement	8.3 L
Bore * Stroke	114mm × 135mm
NO. of cylinders	6
Compression ratio	16.6:1
Engine idle speed	800-1000 rpm
Piston speed	8.1 m/s
Air clearner type	Dry
Exhaust System	
Maximum back pressure	10 kPa
Exhaust pipe size normally acceptable	75 mm
Exhaust gas temperature	500-520 ℃
Exhaust gas flow	726 Litres/sec.
Air Intake System	
Maximum intake air restriction with heav	y duty air cleaner
- Dirty element	6 kPa
- Clean element	4 kPa
Recommended intake piping size	75 mm
Intake air flow	280 Litres/sec.

N/A
121 °C
27.6 Litres
100 direct injection
30 Litres/hou
66 Litres/hou
59 Litres/hou
44 Litres/hou
30 Litres/hou
17 Litres/hou
8 hours
11.1 Litres
82 - 93 ℃
110 ℃
104 ℃
24∖
Maintenance-free
Auailable
26-30 kW
102-110 kW
N/A

Alternator 60Hz/1800R.P.M

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

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
Stamford	HCI544E	12	AS440	1	240 (220-240)	218/273	N/A
Leroy-somer	LSA46.2L9	12	R250			237/296	261/326
Stamford	UCDI274J	12	AS440	3	380/220	240/300	260/325
Tide	TPA314M3	12	SX440			225/281	248/310
Leroy-somer	LSA46.2L6	12	R250			221/276	243/304
Stamford	UCDI274K	12	AS440	3	416/240	232.8/291	349.6/312
Tide	TPA314S2	12	SX440			200/250	220/275
Leroy-somer	LSA46.2L6	12	R220			231/289	254/317
Stamford	UCDI274J	12	AS440	3	440-460	239.2/299	244.8/306
Tide	TPA274L10	12	SX460			224/280	240/300
Leroy-somer	LSA46.2L6	12	R220			240/300	270/337
Stamford	UCDI274J	12	AS440	3	480/277	240/300	260/325
Tide	TPA274L9	12	SX460			218/272.5	233/291









		Intelligent 1.0	Intelligent 3.0	Intelligent 5.0
	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	×	•	•
Generator protection	Over current protection	×	•	•
Generator protection	Over Frequency protection	•	•	•
	Short circuit protection	MCCB	MCCB+O	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
Eunction	Remote monitoring	×	0	0
Function	Communication port	×	0	0
	CAN	•	0	•
	Start/Stop time control	X	×	•
	Maintenance tips	X	×	•
	Fault record	×	×	•
	Multi-language function	×	•	•

(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	Α	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	E	E	
2500	Е	E	Е	
3200	Е	×	E	

Dimensions : mm

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