



# Powerzone Technologies Pte Ltd

## Company Profile

Founded in 2009, Powerzone Technologies Pte Ltd specializes in the manufacturing of Power Generator Sets and Power Plant solutions provider. Powerzone customized manufactures and provides After-Sales Services of Power Generators and Energy products for the regional oil and gas, construction, industrial, IPP (Independent Power Producers), mining and marine industries.

Direct source of supply and pricing support from Perkins Engines and Stamford Alternators supplies.

A good track record in Indonesia, Thailand, and the Middle East. Providing the best services and quality products to all our customers in the regions.

Product Warranty from Singapore head office and original engine manufacturer. Provide total service packages to customers and maintaining the best performance of the products.

Powerzone's production facilities in China works in conjunction with established engine and generator manufacturers, enabling us to provide customers with a wide range of choices for the power generation solutions that can be customized to your specific requirements. Some of the world-renown engine manufacturers are Perkins, Cummins, and Mitsubishi.

Powerzone's sales and distributors networks are located in various countries in the Asia Pacific region, which can provide customers with supports needed.

### Our Mission

"To be a Global Power & Energy Solution Partner"

### Our Vision

"To meet our clients' Power Supply needs with innovative solutions and value creation, strengthened by industry knowledge, market intelligence and expertise"

### Our Values

"Excellence, Integrity, Corporate-Social Responsibility"



#### Powerzone Technologies Pte Ltd

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## Mini-Air-Cooled Generator Set

They might be tiny. These are mini-generators that supply power between 3000 to 8000 watts. They are ideal generators for a home or a small shops. They are portable, so they can also be used for camping and outdoor trips. They usually run on petrol or diesel. These portable and standby generators are capable of powering all the major appliances used in a household.

### Features

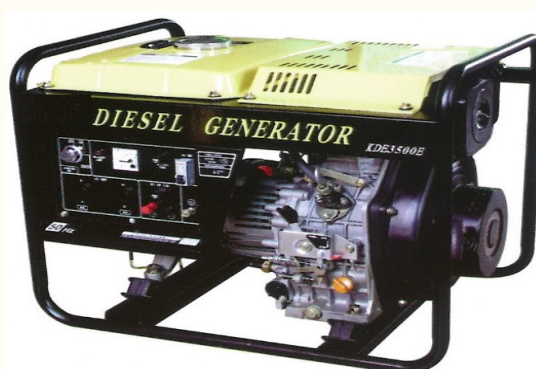
- ⌚ Automatic voltage regulator ensures steady voltage output, with over loading protect function.
- ⌚ Low oil pressure alarm system, which can shut down the engine automatically.
- ⌚ Electric starting system allows fast starting of the set.
- ⌚ 3-phase output meets the diversified demands from customers.
- ⌚ Option to have Integrated cabinet that ensures the set running silently.
- ⌚ Carry-Around Convenience
- ⌚ Easy maintenance
- ⌚ Durable-because it built by a specialist in large diesel technology.

### What You Should Know?

In air-cooling systems, the engine takes cool air from the atmosphere and blows it internally across the different parts of the generator set. This keeps the generator from overheating. Many homes and appliances use air-cooled generators, as they tend to be a good value buy. They can still power a good deal of a house during a power outage, so they make ideal backup systems. They can also be used as the main generator if whatever application they are generating for isn't too large or demanding, as a generator with an air-cooled engine are generally used for smaller jobs and shorter periods of time. They are perfect for any non-industrial or undemanding work. Air-cooling systems are often used in portable generator sets and standby generators of up to 22 kilowatts. Air-cooled systems are simpler and less expensive than liquid-cooled systems

### Maintenance

Air-cooled generators tend to be easier when considering maintenance. Without the complex workings of an automobile-style liquid-cooled engine, and without as much mess generated by the cooling process, the air-cooling process is an easy one to look after. Keep in mind that there is maintenance involved with an air-cooled generator, but when compared to a liquid-cooled generator, it's much simpler and tends to take less time when compared to a liquid-cooled engine – a valuable thing for someone operating a business or store. All you must do is check the oil levels every now and then, and make sure the generator's batteries have voltage and that everything is functioning properly. This is incredibly simple and time saving, which is something every workplace wants, as time is money.



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## Powerzone Technologies Pte Ltd

### Diesel Generating Sets KDE3500X/E/T (Single-Cylinder)

- ☞ New automatic voltage regulator ensures steady voltage output, with over loading protect function.
- ☞ Low oil pressure alarm system, which can shut down the engine automatically.
- ☞ Electric starting system allows fast starting of the set.



#### Parameters and Specifications

Model	KDE3500X/E/T		
Frequency (Hz)	50	60	
Output power (KVA)	2.8	3	
Max. Power(KVA)	3	3.2	
Voltage (V)	115/230	120/240	
Current (A)	24.4/12.2	25/12.5	
Engine speed (r/min)	3000	3600	
Phase	Single		
Power factor(cosφ)	1		
Excitation system	(AVR) Self-excited constant voltage		
Noise level (7m) dB (A)	X/E: 77	T:72	
Fuel tank capacity (L)	X/E: 12.5	T:15	
Structure	X/E: open-frame	T:silent	
Panel	Ordinary		
Output socket	Two		
Output Terminal Post	No		
DC12V output terminal post	Terminal Post		
Net weight(KG)	X: 65	E: 70	T:140
Dimension(L*W*H)	X/E: 640 x 480 x 530 T: 830 x 532 x 740		
Engine Model	KA178F		
Engine Type	Single-cylinder, vertical, four-stroke, air cooled, direct injection		
Bore*stroke (mm)	78 x 62		
Displacement (L)	0.296		
Power (KW)	3.68/3000	4/3000	
Fuel consumption rate (g. KW/h)	≤276.1	≤285.6	
Compression ratio	20		
Lubrication system	Pressure splashed		
Engine starting system	Type X: Recoil Starter	Type E: Electric Starter	
Fuel type	Summer: 0#, Winter: -10#		
Lube oil model	SAE10W30 (above CD grade)		
Lube oil capacity (L)	1.1		
Battery capacity(V-AH)	12V-36Ah		

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## Powerzone Technologies Pte Ltd

### Diesel Generating Sets KDE6500 X E X3 E3 (Single-Cylinder )

- ⊗ New automatic voltage regulator ensures steady voltage output.
- ⊗ Low oil pressure alarm system, which can shut down the engine automatically.
- ⊗ Electric start system (type E) ensures rapid starts of the set.
- ⊗ 3-phase output meets the diversified demands from customers.



#### Parameters and Specifications

Model	KDE8600X/E		KDE8600X3/E3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	4.5	5	5.5	6.3
Max. Power(KVA)	5	5.5	6	7
Voltage (V)	115/230	120/240	230/400	240/416
Current (A)	39.1/19.6	41.7/20.8	7.9	8.7
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase	
Power factor(cosφ )	1		0.8	
Excitation system	(AVR) Self-excited constant voltage			
Noise level (7m) dB (A)	77			
Fuel tank capacity (L)	12.5			
Structure	Open-frame			
Panel	Ordinary			
Outputsocket	Two		One Sing-phase, and one 3-phase	
Output Terminal Post DC12V output	No Terminal Post			
Net weight(KG)	X: 95		E: 100	
Dimension(L*W*H)	760 x 515 x 710			
Engine Model	KA186FA			
Engine Type	Single-cylinder, vertical, four-stroke, air cooled, direct injection			
Bore*stroke (mm)	86 x 72			
Displacement (L)	0.418			
Power (KW)	5.7/3000	6.3/3600	5.7/3000	6.3/3600
Fuel consumption rate (g. KW/h)	≤ 271.5	≤ 280	≤ 271.5	≤ 280
Compression ratio	19			
Lubrication system	Pressure splashed			
Engine starting system	Type X: Recoil Starter    Type E: Electric Starter			
Fuel type	Summer: 0#, Winter: -10#			
Lube oil model	SAE10W-30 (above CD grade)			
Lube oil capacity (L)	1.65			
Battery capacity(V-AH)	12V-36Ah			

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(Single-Cylinder )**

- ⊗ New automatic voltage regulator ensures steady voltage output.
- ⊗ Low oil pressure alarm system, which can shut down the engine automatically.
- ⊗ Electric start system (type E) ensures rapid starts of the set.
- ⊗ Integrated cabinet ensures the set running silently.



**Parameters and Specifications**

Model	KDE6500T		KDE6500T3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	4.5	5	5.5	6.3
Max. Power(KVA)	5	5.5	6	7
Voltage (V)	115/230	120/240	230/400	240/416
Current (A)	39.1/19.6	41.7/20.8	7.9	8.7
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase	
Power factor(cosφ )	1		0.8	
Excitation system	(AVR) Self-excited constant voltage			
Noise level (7m) dB (A)	72			
Fuel tank capacity (L)	15			
Structure	Silent			
Panel	Ordinary			
Outputsocket	Two		One Sing-phase, and one 3-phase	
Output Terminal Post DC12V output	No Terminal Post			
Net weight(KG)	158			
Dimension(L*W*H)	912 x 532 x 740			
Engine Model	KA186FA			
Engine Type	Single-cylinder, vertical, four-stroke, air cooled, direct injection			
Bore*stroke (mm)	86 x 72			
Displacement (L)	0.418			
Power (KW)	5.7/3000	6.3/3600	5.7/3000	6.3/3600
Fuel consumption rate (g. KW/h)	≤ 271.5	≤ 280	≤ 271.5	≤ 280
Compression ratio	19			
Lubrication system	Pressure splashed			
Engine starting system	Electric Starter			
Fuel type	Summer: 0#, Winter: -10#			
Lube oil model	SAE10W-30 (above CD grade)			
Lube oil capacity (L)	1.65			
Battery capacity(V-AH)	12V-36Ah			

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- ⊗ Low oil pressure alarm system, which can shut down the engine automatically.
- ⊗ Electric start system (type E) ensures rapid starts of the set.



Parameters and Specifications

Model	KDE8600 X/E		KDE8600 X3/E3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	6	6.5	7.5	8
Max. Power(KVA)	6.5	7	8	8.5
Voltage (V)	115/230	120/240	230/400	240/416
Current (A)	52.1/26.1		10.8	
Engine speed (r/min)	3000		3000	
Phase	Single			
Power factor(cosφ )	1			
Excitation system	(AVR) Self-excited constant voltage			
Noise level (7m) dB (A)	77			
Fuel tank capacity (L)	12.5			
Structure	Open-frame			
Panel	Ordinary			
	Two			
Output Terminal Post DC12V output	No			
	Terminal Post			
Net weight(KG)	X Type: 95		E Type: 100	
Dimension(L*W*H)	760 x 515 x 710			
Engine Model	KA188F			
Engine Type	Single-cylinder, vertical, four-stroke, air cooled, direct injection			
Bore*stroke (mm)	88 x 75			
Displacement (L)	0.456			
Power (KW)	7.5/3000			
Fuel consumption rate (g. KW/h)	≤ 271			
Compression ratio	19			
Lubrication system	Pressure splashed			
Engine starting system	Type X: Recoil Starter		Type E: Electric Starter	
Fuel type	Summer: 0#, Winter: -10#			
Lube oil model	SAE10W-30 (above CD grade)			
Lube oil capacity (L)	1.65			
Battery capacity(V-AH)	12V-36Ah			

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- ☞ Electric start system (type E) ensures rapid starts of the set.
- ☞ Integrated cabinet ensures the set running silently.



**Parameters and Specifications**

Model	KDE8600T		KDE8600T3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	6	6.5	7.5	8
Max. Power(KVA)	6.5	7	8	8.5
Voltage (V)	115/230	120/240	230/400	240/416
Current (A)	52.1/26.1	54.1/27.1	10.8	11.1
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase	
Power factor(cosφ )	1		0.8	
Excitation system	(AVR) Self-excited constant voltage			
Noise level (7m) dB (A)	72			
Fuel tank capacity (L)	15			
Structure	Silent			
Panel	Ordinary			
Outputsocket	Two		One Sing-phase, and one 3-phase	
Output Terminal Post DC12V output	No			
	Terminal Post			
Net weight(KG)	158/161			
Dimension(L*W*H)	970 x 560 x 770			
Engine Model	KA188F			
Engine Type	Single-cylinder, vertical, four-stroke, air cooled, direct injection			
Bore*stroke (mm)	88 x 75			
Displacement (L)	0.456			
Power (KW)	7.5/3000	8.2/3600	7.5/3000	8.2/3600
Fuel consumption rate (g. KW/h)	≤ 271	≤ 280	≤ 275	≤ 280
Compression ratio	19			
Lubrication system	Pressure splashed			
Engine starting system	KEY START Type X: Recoil Starter Type E: Electric Starter			
Fuel type	Summer: 0#, Winter: -10#			
Lube oil model	SAE10W-30 (above CD grade)			
Lube oil capacity (L)	1.65			
Battery capacity(V-AH)	12V-36Ah			

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- ⊗ New automatic voltage regulator ensures steady voltage output.
- ⊗ New intelligitized panel could show real-time operating parameter, with over loading protect function.
- ⊗ Low oil pressure alarm system, which can shut down the engine automatically.
- ⊗ Electric start system ensures rapid starts of the set.



**Parameters and Specifications**

Model	KDE12E/EA		KDE12E3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	8.5	9.5	9.5	10.5
Max. Power(KVA)	9.5	10.5	10.5	11.5
Voltage (V)	115/230	120/240	400/230	416/240
Current (A)	73.9/36.9	79.2/39.6	13.7	14.6
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase Y type	
Power factor	1.0		0.8	
Insulation level	F			
Pole	2			
Excitation system	(AVR) Self-excited constant voltage			
Panel	E: Ordinary EA: Intelligitized		E3: Ordinary EA3: Intelligitized	
Output voltage (V)	115/230	120/240	400/230	416/240
Outputsocket	Yes			
Output Terminal Post	Yes			
Dimension(L*W*H)	930 × 620 × 690		930 × 620 × 690	
Net weight(KG)	185			
Noise level (7m) db(A)	75			
Structure	Open-frame			
Engine Model	KA840			
Engine Type	Two-cylinder, v-type, air-cooled, four-stroke, direct injection			
Bore*stroke (mm)	2-86 x 72			
ml Displacement (ml)	836			
Power (KW)	10.3/3000	11.3/3600	10.3/3000	11.3/3600
Compression ratio	19.1			
Rate rotate speed (r/min)	3000	3600	3000	3600
Cooled system	Air-cooled			
Lubrication system	Pressure splashed			
Engine starting system	Electric starter			
Fuel	Summer: 0#, winter: -10#, -35# (chill) diesel oil			
Lube oil model	L-ECD (Level) 15W30 Or 15W40			
Battery capacity(V-AH)	12V 36AH			
Fuel consumption rate (g. KW/h)	≤340			
Fuel tank capacity (L)	25			
Continual running time	7	6.5	7	6.5

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- Ⓢ New automatic voltage regulator ensures steady voltage output.
- Ⓢ New intelligentized panel could show real-time operating parameter, with over loading protect function.
- Ⓢ Low oil pressure alarm system, which can shut down the engine automatically.
- Ⓢ Electric start system ensures rapid starts of the set.
- Ⓢ Integrated cabinet ensures the set running silently.



**Parameters and Specifications**

Model	KDE12T		KDE12T3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	8.5	9.5	9.5	10.5
Max. Power(KVA)	9.5	10.5	10.5	11.5
Voltage (V)	115/230	120/240	400/230	416/240
Current (A)	73.9/36.9	79.2/39.6	13.7	14.6
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase	
Power factor	1.0		0.8	
Insulation level				
Pole				
Excitation system	(AVR) Self-excited constant voltage		(AVR) Self-excited constant voltage	
Panel	Ordinary			
Output voltage (V)				
Outputsocket	Two		One single-phase, and one 3-phase	
Output Terminal Post	yes			
Dimension(L*W*H)	1180 x 720 x 820			
Net weight(KG)	245			
Noise level (7m) db(A)	72			
Structure	Silent			
Engine Model	KA840			
Engine Type	Single-cylinder, V-type, four-stroke, air-cooled, direct injection			
Bore*stroke (mm)	2-86 x 72			
ml Displacement (ml)	0.836			
Power (KW)	10.3/3000		11.3/3600	
Compression ratio	19			
Rate rotate speed (r/min)				
Cooled system				
Lubrication system	Spring			
Engine starting system	Electric starter			
Fuel	Summer: 0# winter: -10#			
Lube oil model	L-ECD (Level) 15W30 Or 15W40			
Battery capacity(V-AH)	12V 36AH			
Fuel consumption rate (g. KW/h)	≤340			
Fuel tank capacity (L)				
Continual running time	7	6.5	7	6.5

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- ⊗ Electric start system ensures rapid starts of the set.
- ⊗ Integrated cabinet ensures the set running silently.



**Parameters and Specifications**

Model	KDE12T		KDE12T3	
Frequency (Hz)	50	60	50	60
Output power (KVA)	8.5	9.5	9.5	10.5
Max. Power(KVA)	9.5	10.5	10.5	11.5
Voltage (V)	115/230	120/240	400/230	416/240
Current (A)	73.9/36.9	79.2/39.6	13.7	14.6
Engine speed (r/min)	3000	3600	3000	3600
Phase	Single		3-phase	
Power factor	1.0		0.8	
Excitation System	(AVR) Self-excited constant voltage			
Noise level (7m) dB (A)	72			
Fuel tank capacity (L)	25			
Structure	Silent			
Panel	Ordinary			
Outputsocket	Two		One Sing-phase, and one 3-phase	
Output Terminal Post DC12V output	Yes		No	
	Terminal Post			
Net weight(KG)	245			
Dimension(L*W*H)	1180 x 720 x 820			
Engine Model	KA840			
Engine Type	Single-cylinder, V-type, four-stroke, air cooled, direct injection			
Bore*stroke (mm)	2-86 x 72			
Displacement (L)	0.836			
Power (KW)	10.3/3000		11.3/3600	
Fuel consumption rate (g. KW/h)	≤ 340			
Compression ratio	19			
Lubrication system	Spring			
Engine starting system	Electric Starter			
Fuel type	Summer: 0#, Winter: -10#			
Lube oil model	L-ECD (Level) 15W30 Or 15W40			
Lube oil capacity (L)	2.7			
Battery capacity(V-AH)	12V-36Ah			

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- ☞ Electric start system ensures rapid starts of the set.



#### Parameters and Specifications

Model	KGE10E/E3		KGE12E/E3	
Frequency (Hz)	50	50	50	50
Output power (KVA)	8	10	10	12.5
Max. Power(KVA)	8.8	11	11	13.75
Voltage (V)	230	230/400	230	230/400
Current (A)	34.8	14.4	43.5	18.04
Engine speed (r/min)	3000/3600			
Phase	Single	Triple	Single	Triple
Power factor	1	0.8	1	0.8
Excitation System	Self-excited			
Noise level (7m) dB (A)	Less than or equal to 80			
Fuel tank capacity (L)	25			
Structure	Open-frame			
Panel	Ordinary			
Outputsocket	Two			
Output Terminal Post DC12V output	Yes			
	12 / 8.3A			
Net weight(KG)	150		158	
Dimension(L*W*H)	995 x 630 x 790			
Engine Model	Pro CH640		Pro CH730	
Engine Type	V-twin cylinder, Air-cooled, 4-stroke OHV			
Bore*stroke (mm)	77 x 67		83 x 67	
Displacement (L)	674		725	
Power (KW)	15		17.3	
Fuel consumption rate (g. KW/h)	350			
Compression ratio	8.5		9	
Lubrication system	Full pressure lubrication with full-flow filter			
Engine starting system	KEY			
Fuel type	Unleaded Gasoline			
Lube oil model	CD Grade or SAE10W-30, 15W-40			
Lube oil capacity (L)	1.9			
Battery capacity(V-AH)	12V-36Ah			

#### Powerzone Technologies Pte Ltd

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#### For further information, please contact:

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## Powerzone Technologies Pte Ltd

### Diesel Generating Sets KDE6500 X E X3 E3 (Single-Cylinder )

- ☞ New automatic voltage regulator ensures steady voltage output, with over loading protect function.
- ☞ Low oil pressure alarm system, which can shut down the engine automatically.
- ☞ Electric start system ensures rapid starts of the set.



#### Parameters and Specifications

Model	KGE10E/E3		KGE12E/E3	
Frequency (Hz)	50	50	50	50
Output power (KVA)	13	16.3	15	18.5
Max. Power(KVA)	14.3	17.9	16.5	20.63
Voltage (V)	230	230/400	230	230/400
Current (A)	56.5	19	65.2	27.06
Engine speed (r/min)	3000/3600			
Phase	Single	Triple	Single	Triple
Power factor	1	0.8	1	0.8
Excitation System	Self-excited			
Noise level (7m) dB (A)	Less than or equal to 80			
Fuel tank capacity (L)	25			
Structure	Open-frame			
Panel	Ordinary			
Outputsocket	Two			
Output Terminal Post DC12V output	Yes			
	12 / 8.3A			
Net weight(KG)	190		198	
Dimension(L*W*H)	995 x 630 x 790		1085 x 735 x 790	
Engine Model	Pro CH740		Pro CH980	
Engine Type	V-twin cylinder, Air-cooled, 4-stroke OHV			
Bore*stroke (mm)	83 x 67		90 x 78.5	
Displacement (L)	725		999	
Power (KW)	18.38		25.7	
Fuel consumption rate (g. KW/h)	350			
Compression ratio	9		8.8	
Lubrication system	Full pressure lubrication with full-flow filter			
Engine starting system	KEY			
Fuel type	Unleaded Gasoline			
Lube oil model	CD Grade or SAE10W-30, 15W-40			
Lube oil capacity (L)	1.9			
Battery capacity(V-AH)	12V-36Ah			

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