PKGVEF-82.5

# 82.5 kVA GRP Genset

A 82.5 kVA CPCB IV+ diesel genset in Pai Kane's patented GRP composite enclosure, with a VECV (Volvo Eicher) E494 engine and gull-wing service doors.



## Technical specifications

### Genset

| | |
|---|---|
| Prime rating (kVA / kWe) | 82.5 kVA / 66 kWe |
| Power factor | 0.8 |
| Phase and voltage | 3-phase, 415 V |
| Frequency | 50 Hz |
| Rated current per phase at 415 V (A) | 115 |
| Noise | Less than 75 dB(A) at 1 m |
| Emission norm | CPCB IV+ |
| Model code | PKGVEF-82.5 |

### Alternator

| | |
|---|---|
| Make and model | Leroy-Somer LSAP 44.3 B2 |
| Type | Brushless, self-excited |
| Insulation class | Class H |
| Protection | IP23 |
| Voltage regulation | ±1% with 4% engine governing |

### Enclosure

| | |
|---|---|
| Construction | 3 mm GRP composite, acoustic foam lining (28 kg/m³) |

### Electrical

| | |
|---|---|
| Controller | DEIF SGC 120 MKII |
| Battery (V) | 12 |
| Battery capacity | 120 Ah |

### Engine

| | |
|---|---|
| Make | VECV (Volvo Eicher) |
| Model | E494 TCIC |
| Gross power (bHp) | 104 |
| Cylinders | 4 |
| Aspiration | Turbocharged, intercooled |
| Displacement (L) | 3.8 |
| Speed (rpm) | 1,500 |
| Cooling | Liquid cooled |
| Governing class | Electronic, class A1 |

### Fuel

| | |
|---|---|
| Tank capacity (L) | 190 |
| Tank | CRCA steel, removable |
| Consumption at 100% load (L/h) | 18.98 |
| Consumption at 75% load (L/h) | 14.24 |
| Urea (DEF) tank | 27 L |

### Dimensions and weight

| | |
|---|---|
| L × W × H (mm) | 3,500 × 1,760 × 2,435 |
| Dry weight (kg) | 1,550 |

## Key features

**Patented GRP enclosure**
A glass-reinforced plastic shell that does not rust, is UV stable and weather resistant, and insulates thermally and electrically.

**Gull-wing service doors**
Doors lift on gas springs to open the whole set for service.

**Low vibration, super silent**
Composite enclosure with acoustic foam lining; below 75 dB(A) at 1 m.

**VECV E494 engine**
4-cylinder, turbocharged, intercooled, 104 bHp at 1,500 rpm, 3.8 L displacement. Electronic, class A1 governing.

**190 L fuel tank**
Runs about 13 hours at 75% load on a full tank (14.24 L/h). CRCA steel, removable tank.

**CPCB IV+ compliant**
Meets India's CPCB IV+ emission norms for gensets up to 800 kW.

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