PKGVEF-100

100 kVA GRP Genset

A 100 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)	100 kVA / 80 kWe
Power factor	0.8
Phase and voltage	3-phase, 415 V
Frequency	50 Hz
Rated current per phase at 415 V (A)	139
Noise	Less than 75 dB(A) at 1 m
Emission norm	CPCB IV+
Model code	PKGVEF-100

Alternator

Make and model	Leroy-Somer LSAP 44.3 C
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)	128
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)	24.11
Consumption at 75% load (L/h)	17.75
Urea (DEF) tank	27 L

Dimensions and weight

L × W × H (mm)	3,500 × 1,760 × 2,435
Dry weight (kg)	1,600

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, 128 bHp at 1,500 rpm, 3.8 L displacement. Electronic, class A1 governing.

190 L fuel tank
Runs about 11 hours at 75% load on a full tank (17.75 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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