PKGVE-IV-100

100 kVA Diesel Genset

A 100 kVA CPCB IV+ diesel genset with a VECV (Volvo Eicher) E494 engine, in an acoustic canopy below 75 dB(A) at 1 m.



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	PKGVE-IV-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	1.2 mm sheet steel, acoustic foam lining (26–28 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)	235
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)	3,400 × 1,400 × 1,550
Dry weight (kg)	1,600

Key features

VECV E494 engine
4-cylinder, turbocharged, intercooled, 128 bHp at 1,500 rpm, 3.8 L displacement. Electronic, class A1 governing.

Leroy-Somer LSAP 44.3 C alternator
Brushless and self-excited, with Class H insulation and IP23 protection; voltage regulation ±1% with 4% engine governing.

Acoustic canopy below 75 dB(A) at 1 m
1.2 mm sheet steel, acoustic foam lining (26–28 kg/m^3).

DEIF SGC 120 MKII controller
Automatic start and stop, run-hour and energy counters, and protections for over- and under-voltage, over-current, over-speed, lube oil pressure, coolant temperature and fuel theft.

Urea (DEF) tank for after-treatment
27 L urea tank for the CPCB IV+ exhaust after-treatment system.

235 L fuel tank
Runs about 13 hours at 75% load on a full tank (17.75 L/h). CRCA steel, removable tank.

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