PKGVE-IV-160

160 kVA Diesel Genset

A 160 kVA CPCB IV+ diesel genset with a VECV (Volvo Eicher) E694 engine, in an acoustic canopy below 75 dB(A) at 1 m.



Technical specifications

Genset

Prime rating (kVA / kWe)	160 kVA / 128 kWe
Power factor	0.8
Phase and voltage	3-phase, 415 V
Frequency	50 Hz
Rated current per phase at 415 V (A)	222
Noise	Less than 75 dB(A) at 1 m
Emission norm	CPCB IV+
Model code	PKGVE-IV-160

Alternator

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

Enclosure

Construction	1.5 mm sheet steel, acoustic foam lining (26–28 kg/m³)

Electrical

Controller	DEIF SGC 120 MKII
Battery (V)	12
Battery capacity	150 Ah

Engine

Make	VECV (Volvo Eicher)
Model	E694 TCIC
Gross power (bHp)	200
Cylinders	6
Aspiration	Turbocharged, intercooled
Displacement (L)	5.65
Speed (rpm)	1,500
Cooling	Liquid cooled
Governing class	Electronic, class A1

Fuel

Tank capacity (L)	310
Tank	CRCA steel, removable
Consumption at 100% load (L/h)	37.44
Consumption at 75% load (L/h)	28.08
Urea (DEF) tank	27 L

Dimensions and weight

L × W × H (mm)	4,000 × 1,400 × 2,285
Dry weight (kg)	2,200

Key features

VECV E694 engine

6-cylinder, turbocharged, intercooled, 200 bHp at 1,500 rpm, 5.65 L displacement. Electronic, class A1 governing.

Leroy-Somer LSAP 44.3 H 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

1.5 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.

310 L fuel tank

Runs about 11 hours at 75% load on a full tank (28.08 L/h). CRCA steel, removable tank.

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