PKGVE-IV-45

45 kVA Diesel Genset

A 45 kVA CPCB IV+ diesel genset with a VECV (Volvo Eicher) E483 engine, in an acoustic canopy below 75 dB(A) at 1 m.



Technical specifications

Genset

Prime rating (kVA / kWe)	45 kVA / 36 kWe
Power factor	0.8
Phase and voltage	3-phase, 415 V
Frequency	50 Hz
Rated current per phase at 415 V (A)	63
Noise	Less than 75 dB(A) at 1 m
Emission norm	CPCB IV+
Model code	PKGVE-IV-45

Alternator

Make and model	Leroy-Somer LSAP 42.3 G
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	100 Ah

Engine

Make	VECV (Volvo Eicher)
Model	E483 TCIC
Gross power (bHp)	57
Cylinders	4
Aspiration	Turbocharged, intercooled
Displacement (L)	3.3
Speed (rpm)	1,500
Cooling	Liquid cooled
Governing class	Electronic, class A1

Fuel

Tank capacity (L)	140
Tank	CRCA steel, removable
Consumption at 100% load (L/h)	10.2
Consumption at 75% load (L/h)	7.95

Dimensions and weight

L × W × H (mm)	2,800 × 1,080 × 1,590
Dry weight (kg)	1,050

Key features

VECV E483 engine
4-cylinder, turbocharged, intercooled, 57 bHp at 1,500 rpm, 3.3 L displacement. Electronic, class A1 governing.

Leroy-Somer LSAP 42.3 G 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.

Single-phase version available
Also built as a single-phase 230 V set with a Leroy-Somer LSAP 44.3 B1 alternator.

140 L fuel tank
Runs about 18 hours at 75% load on a full tank (7.95 L/h). CRCA steel, removable tank.

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