

GENERATORS · BACK-UP

STANDBY POWER THAT CARRIES THE WHOLE LOAD

11 models · 30-320 kVA rated output

Standby generating sets built around turbocharged industrial engines and Nidec alternators, sized to take the full site load the moment the mains drop.

30-320 kVA
RATED OUTPUT

24-256 kW
PRIME OUTPUT

400V
VOLTAGE

43.3-462 A
RATED CURRENT

APPLICATIONS

Emergency power

Data & telecoms

Healthcare

Industry

Agriculture

Remote sites

PKGVE-30
30 kVA

PKGVE-40
40 kVA

PKGVE-50
50 kVA

30 **kVA**
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

30 kVA

RATED CURRENT

43.3 A

PRIME OUTPUT

24 kW

VOLTAGE

400V

EICHER (VECV) · NIDEC



Eicher (VECV) EE483TCII

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	30 kVA / 24 kW
Standby power	33 kVA / 26.4 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	43.3 A

ENGINE

Engine	Eicher (VECV) EE483TCII
Mechanical output	28.33 kW at 1500 rpm
Configuration	4 cylinder inline, 3.298 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	5.33 / 7.06 L/h
Fuel tank	80 L, removable · external filling
Runtime at 75% load	15 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	2250 x 1020 x 1330 mm
Weight	1000 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE483TCII drives this set: 3.298 litres, 4 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

3.298 L

CYLINDERS

4

SPEED

1500 rpm

CONSUMPTION

7.06 L/h

40 **kVA**
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

40 kVA

RATED CURRENT

57.74 A

PRIME OUTPUT

32 kW

VOLTAGE

400V

EICHER (VECV) · NIDEC



Eicher (VECV) EE483TC

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	40 kVA / 32 kW
Standby power	44 kVA / 35.2 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	57.74 A

ENGINE

Engine	Eicher (VECV) EE483TC
Mechanical output	38.77 kW at 1500 rpm
Configuration	4 cylinder inline, 3.298 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	6.93 / 8.99 L/h
Fuel tank	80 L, removable · external filling
Runtime at 75% load	12 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	2250 x 1020 x 1330 mm
Weight	1050 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE483TC drives this set: 3.298 litres, 4 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

3.298 L

CYLINDERS

4

SPEED

1500 rpm

CONSUMPTION

8.99 L/h

50

kVA
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

50 kVA

RATED CURRENT

72.17 A

PRIME OUTPUT

40 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	50 kVA / 40 kW
Standby power	55 kVA / 44 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	72.17 A

ENGINE

Engine	Eicher (VECV) EE483TC
Mechanical output	48.47 kW at 1500 rpm
Configuration	4 cylinder inline, 3.298 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	8.66 / 11.85 L/h
Fuel tank	85 L, removable · external filling
Runtime at 75% load	10 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	2400 x 1090 x 1470 mm
Weight	1200 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE483TC drives this set: 3.298 litres, 4 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

3.298 L

CYLINDERS

4

SPEED

1500 rpm

CONSUMPTION

11.85 L/h

62.5 **kVA**

RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

62.5 kVA

RATED CURRENT

90.21 A

PRIME OUTPUT

50 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	62.5 kVA / 50 kW
Standby power	68.75 kVA / 55 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	90.21 A

ENGINE

Engine	Eicher (VECV) EE483TC
Mechanical output	60 kW at 1500 rpm
Configuration	4 cylinder inline, 3.298 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	10.48 / 14.21 L/h
Fuel tank	85 L, removable · external filling
Runtime at 75% load	8 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	2400 x 1090 x 1470 mm
Weight	1250 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE483TC drives this set: 3.298 litres, 4 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

3.298 L

CYLINDERS

4

SPEED

1500 rpm

CONSUMPTION

14.21 L/h

82.5 **kVA**

RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

82.5 kVA

RATED CURRENT

119 A

PRIME OUTPUT

66 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	82.5 kVA / 66 kW
Standby power	90.75 kVA / 72.6 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	119 A

ENGINE

Engine	Eicher (VECV) EE683TC
Mechanical output	78.29 kW at 1500 rpm
Configuration	6 cylinder inline, 4.95 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	13.34 / 17.79 L/h
Fuel tank	135 L, removable · external filling
Runtime at 75% load	10 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3100 x 1100 x 1585 mm
Weight	1700 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE683TC drives this set: 4.95 litres, 6 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

4.95 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

17.79 L/h

100

kVA
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

100 kVA

RATED CURRENT

144.34 A

PRIME OUTPUT

80 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	100 kVA / 80 kW
Standby power	110 kVA / 88 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	144.34 A

ENGINE

Engine	Eicher (VECV) EE683TC
Mechanical output	94 kW at 1500 rpm
Configuration	6 cylinder inline, 4.95 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	16.49 / 22.14 L/h
Fuel tank	200 L, removable · external filling
Runtime at 75% load	12 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3420 x 1100 x 1680 mm
Weight	1900 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE683TC drives this set: 4.95 litres, 6 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

4.95 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

22.14 L/h

125 kVA

RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

125 kVA

RATED CURRENT

180.42 A

PRIME OUTPUT

100 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	125 kVA / 100 kW
Standby power	137.5 kVA / 110 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	180.42 A

ENGINE

Engine	Eicher (VECV) EE694TCII
Mechanical output	116.32 kW at 1500 rpm
Configuration	6 cylinder inline, 5.7 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	21.47 / 29.18 L/h
Fuel tank	200 L, removable · external filling
Runtime at 75% load	9 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3420 x 1100 x 1680 mm
Weight	2100 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE694TCII drives this set: 5.7 litres, 6 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

5.7 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

29.18 L/h

160

kVA
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

160 kVA

RATED CURRENT

231 A

PRIME OUTPUT

128 kW

VOLTAGE

400V

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	160 kVA / 128 kW
Standby power	176 kVA / 140.8 kW
Voltage, frequency, phase	400 V, 50/60 Hz, 3-phase+N
Rated current	231 A

ENGINE

Engine	Eicher (VECV) EE694TCII
Mechanical output	150 kW at 1500 rpm
Configuration	6 cylinder inline, 5.7 L
Aspiration and cooling	Turbocharged · direct injection · water-cooled

ALTERNATOR AND CONTROL

Alternator	Nidec
Control	Deep Sea Electronics / DEIF Electronic AMF controller

FUEL AND RUNNING

Consumption at 75 / 100%	27.49 / 38.54 L/h
Fuel tank	250 L, removable · external filling
Runtime at 75% load	9 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3420 x 1100 x 1830 mm
Weight	2200 kg
Enclosure	1.5 mm CRCA acoustic canopy

THE ENGINE

BUILT AROUND THE ENGINE.

Eicher (VECV) EE694TCII drives this set: 5.7 litres, 6 cylinders, turbocharged · direct injection · water-cooled. Rated for 110% for 1 hour in a 12-hour cycle.

DISPLACEMENT

5.7 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

38.54 L/h

200 **kVA**
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

200 kVA

RATED CURRENT

289 A

PRIME OUTPUT

160 kW

VOLTAGE

400V



Volvo Penta TAD840GE

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	200 kVA / 160 kW
Voltage, frequency, phase	400 V, 50 Hz, 3-phase
Rated current	289 A
Power factor	0.8 pf (lag)

ENGINE

Engine	Volvo Penta TAD840GE
Mechanical output	177 kW at 1500 rpm
Configuration	6 cylinder in-line, 7.7 L
Aspiration and cooling	TCl, water cooled
Emission standard	EU Stage II
Starting	24 V electric, 2 x 100 Ah lead acid, cold start aid

ALTERNATOR AND CONTROL

Alternator	Nidec LSAP 45 M1, Class H, IP-23
Control	Deep Sea Electronics DSE 7320 / 7420, Auto start
Outgoing protection	ABB 320 A MCCB

FUEL AND RUNNING

Consumption at 50 / 75 / 100%	27 / 30 / 40 L/h
Fuel tank	600 L, base mounted
Runtime at 75% load	20 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3900 x 1520 x 2175 mm
Weight	3300 kg
Enclosure	Silent, CRCA

THE ENGINE

BUILT AROUND THE ENGINE.

Volvo Penta TAD840GE drives this set: 7.7 litres, 6 cylinders, TCl.

DISPLACEMENT

7.7 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

40 L/h

250 **kVA**
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

250 kVA

RATED CURRENT

361 A

PRIME OUTPUT

200 kW

VOLTAGE

400V



Volvo Penta TAD841GE

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	250 kVA / 200 kW
Voltage, frequency, phase	400 V, 50 Hz, 3-phase
Rated current	361 A
Power factor	0.8 pf (lag)

ENGINE

Engine	Volvo Penta TAD841GE
Mechanical output	220 kW at 1500 rpm
Configuration	6 cylinder in-line, 7.7 L
Aspiration and cooling	TCl, water cooled
Emission standard	EU Stage II
Starting	24 V electric, 2 x 100 Ah lead acid, cold start aid

ALTERNATOR AND CONTROL

Alternator	Nidec LSAP 45 L1, Class H, IP-23
Control	Deep Sea Electronics DSE 7320 / 7420, Auto start
Outgoing protection	ABB 400 A MCCB

FUEL AND RUNNING

Consumption at 50 / 75 / 100%	27 / 39 / 51 L/h
Fuel tank	600 L, base mounted
Runtime at 75% load	15 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3900 x 1520 x 2175 mm
Weight	3400 kg
Enclosure	Silent, CRCA

THE ENGINE

BUILT AROUND THE ENGINE.

Volvo Penta TAD841GE drives this set: 7.7 litres, 6 cylinders, TCl.

DISPLACEMENT

7.7 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

51 L/h

320 **kVA**
RATED OUTPUT

Standby power sized to carry the whole load the moment the mains drop, built around a turbocharged industrial engine and a Nidec alternator.

PRIME POWER

320 kVA

RATED CURRENT

462 A

PRIME OUTPUT

256 kW

VOLTAGE

400V



Volvo Penta TAD843GE

APPLICATIONS

Emergency power · Data & telecoms · Healthcare · Industry · Agriculture · Remote sites

TECHNICAL SPECIFICATION

OUTPUT

Prime power	320 kVA / 256 kW
Voltage, frequency, phase	400 V, 50 Hz, 3-phase
Rated current	462 A
Power factor	0.8 pf (lag)

ENGINE

Engine	Volvo Penta TAD843GE
Mechanical output	280 kW at 1500 rpm
Configuration	6 cylinder in-line, 7.7 L
Aspiration and cooling	TCI, water cooled
Emission standard	EU Stage II
Starting	24 V electric, 2 x 100 Ah lead acid, cold start aid

ALTERNATOR AND CONTROL

Alternator	Nidec LSAP 45 C, Class H, IP-23
Control	Deep Sea Electronics DSE 7320 / 7420, Auto start
Outgoing protection	ABB 500 A MCCB

FUEL AND RUNNING

Consumption at 50 / 75 / 100%	34 / 49 / 65 L/h
Fuel tank	600 L, base mounted
Runtime at 75% load	12 h

ENCLOSURE AND HANDLING

Noise level	68 dB(A) at 7 m
Dimensions (L x W x H)	3900 x 1520 x 2175 mm
Weight	3600 kg
Enclosure	Silent, CRCA

THE ENGINE

BUILT AROUND THE ENGINE.

Volvo Penta TAD843GE drives this set: 7.7 litres, 6 cylinders, TCI.

DISPLACEMENT

7.7 L

CYLINDERS

6

SPEED

1500 rpm

CONSUMPTION

65 L/h

THE PLATFORM

ONE CABINET · EVERYTHING INSIDE

Eicher (VECV) EE483TCII

Turbocharged · direct injection · water-cooled · 3.298 L displacement · 4 cylinders

Nidec alternator

Delivers 30 kVA at 400V, 50/60Hz, 3ph+N.

Deep Sea Electronics / DEIF Electronic AMF controller

Controller family used on the non-emission standby (VECV/Wardpower 30-160 kVA) line. Monitors engine + generator running parameters and protections, supports AMF, RS232/RS485 Modbus RTU, remote web

Acoustic enclosure

1.5 mm CRCA acoustic canopy · < 85 dB @ 1 m (ISO 8528-10)

CHOOSE YOUR MODEL

SPECIFICATION	P 30 kVA	P 40 kVA	P 50 kVA	P 62.5 kVA	P 82.5 kVA	P 100 kVA	P 125 kVA	P 160 kVA	P 200 kVA	P 250 kVA	P 320 kVA
Rated output	30 kVA	40 kVA	50 kVA	62.5 kVA	82.5 kVA	100 kVA	125 kVA	160 kVA	200 kVA	250 kVA	320 kVA
Prime output	24 kW	32 kW	40 kW	50 kW	66 kW	80 kW	100 kW	128 kW	160 kW	200 kW	256 kW
Rated current	43.3 A	57.74 A	72.17 A	90.21 A	119 A	144.34 A	180.42 A	231 A	289 A	361 A	462 A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50Hz	50Hz	50Hz
Phase	3ph+N	3ph+N	3ph+N	3ph+N	3ph+N	3ph+N	3ph+N	3ph+N	3ph	3ph	3ph
Brand	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Eicher (VECV)	Wardle	Pentavalvo	Pentavalvo
Model	EE483TCII	EE483TCII	EE483TCII	EE483TCII	EE683TCII	EE683TCII	EE694TCII	EE694TCII	AD840GE	AD841GE	AD843GE
Mechanical output	28.33 kW	38.77 kW	48.47 kW	60 kW	78.29 kW	94 kW	116.32 kW	150 kW	177 kW	220 kW	280 kW
Cylinders	4	4	4	4	6	6	6	6	6	6	6
Arrangement	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	In-line	In-line	In-line

WHY BACK-UP GENERATORS

CARRIES THE FULL LOAD

Sized to pick up the whole site on mains failure, with 110% overload for one hour in twelve.

PROVEN INDUSTRIAL ENGINE

Turbocharged, water-cooled direct-injection engines chosen for parts availability and service life.

NIDEC ALTERNATOR

Brushless alternator matched to the engine for stable voltage under motor-start loads.

ACOUSTIC CANOPY

CRCA acoustic enclosure keeping the set below 85 dB at one metre.

EASY TO PLACE

Removable tank with external filling, forklift pockets and single-point lift.

SERVICED LOCALLY

Parts, service and project support across Ireland, Benelux and the Nordics.

Ready to size your Back-up Generators system?

Sales, after-sales and project support across the North Sea Region: Ireland, Benelux and the Nordics.

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