

EPA Emergency Standby Diesel Generators

Residential to Industrial | 20 – 275 kWe | Diesel & HVO Ready

EMISSION CERTIFICATION
EPA ESE | 60 Hz

13 Models

Residential to Industrial

Perkins

& Volvo Penta Engines

Stamford

Alternator Platform

2,000 hr

Warranty

Residential / Light Commercial — 20–100 kWe

Commercial — 125–200 kWe

Industrial — 225–275 kWe

★ Above 275 kWe?
Consult a Haifeng Key Account Executive for availability & lead time.



Residential / Light Commercial — 20–100 kWe — Perkins 400/1100 Series | EPA ESE

Model SKU	Power (Standby kWe)	Engine	Emission Rating	Fuel Injection Method	Fuel Consumption @ Full Load
HF-DE020-ES	20 kWe	Perkins 404D	EPA ESE	Mechanical	5.3 L/hr 1.4 gal/hr
HF-DE030-ES	30 kWe	Perkins 404D	EPA ESE	Electronic Direct Injection	7.0 L/hr 1.8 gal/hr
HF-DE050-ES	50 kWe	Perkins 1104D	EPA ESE	Mechanical Direct Injection	13.5 L/hr 3.6 gal/hr
HF-DE060-ES	60 kWe	Perkins 1104D-E	EPA ESE	Electronic Direct Injection	16.2 L/hr 4.3 gal/hr
HF-DE080-ES	80 kWe	Perkins 1104D-E	EPA ESE	Electronic Direct Injection	21.5 L/hr 5.7 gal/hr
HF-DE100-ES	100 kWe	Perkins 1104D-E	EPA ESE	Electronic Direct Injection	26.0 L/hr 6.9 gal/hr

Common Specifications

Rating	EPA ESE
Alternator	Stamford — Brushless Self-Exciting
Power Factor	0.8
Frequency	60 Hz 1800 RPM
Voltage	See output options below
Regulation	±1% (No Load to Full Load)
THD	<5%
Cooling	Water-Cooled — Radiator
Fuel	ULSD Diesel HVO (EN 15940) Compatible
Start	Electric — 12V / 24V Battery
Controller	DSE7320 4G Remote Ready
Warranty	2 Years / 2,000 Hours

Output Voltage Options (North America)

North America — 60 Hz

120/240 VAC	Single-Phase	1.0pf
120/208 VAC	3-Phase	0.8pf
120/240 VAC	3-Phase	0.8pf
277/480 VAC	3-Phase	0.8pf
347/600 VAC	3-Phase	0.8pf

★ Custom voltage upon request

Engine, Fuel & Cooling

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Air Filter Restriction Indicator
- Fan Guard
- SS Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Oil Temperature Sender with Alarm
- Block Heater w/ Receptacle
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- HVO (EN 15940) Drop-In Compatible

Alternator, Control & Protection

- Class H Insulation | Brushless Excitation
- Sealed Bearing | Skewed Stator | 2/3 Pitch
- Full Load Capacity Alternator
- Internal Genset Vibration Isolation
- Separation of Circuits — High/Low Voltage
- DSE7320 Controller | UL / NFPA 110 Lvl 1
- Digital Engine Governor + Voltage Regulator
- Modbus RTU / TCP/IP + Ethernet Remote Comms
- Alarm & Event Logging with Real-Time Stamp
- High/Low Oil Pressure & Coolant Level Alarms
- Over/Under Volt, Freq & Speed Protection
- Over Current | Phase Short Circuit Protection

Fuel Tank (Default: 10-Hour Runtime)

- Double Wall Construction
- Factory Pressure Tested @ 2 psi
- Rupture Basin Alarm
- Visual Fuel Level Indication
- Check Valve — Supply & Return Lines
- Polyester Powder Coat Paint
- ★ Optional Upgrade: UL 142 / ULC S601



Model	Enclosure (mm)	Enclosure (in)	Weight (kg)	Weight (lb)
20 kWe	2200×1010×1480 mm	86.6×39.8×58.3 in	990 kg	2,183 lb
30 kWe	2200×1010×1480 mm	86.6×39.8×58.3 in	1,020 kg	2,249 lb
50 kWe	2650×1110×1690 mm	104.3×43.7×66.5 in	1,500 kg	3,307 lb
60 kWe	2650×1110×1690 mm	104.3×43.7×66.5 in	1,600 kg	3,527 lb



Commercial — 125 to 200 kWe — Perkins 1106D Series | EPA ESE

Model SKU	Power (Standby kWe)	Engine	Emission Rating	Fuel Injection Method	Fuel Consumption @ Full Load
HF-DE125-ES	125 kWe	Perkins 1106D-E	EPA ESE	Electronic Direct Injection	32.8 L/hr 8.7 gal/hr
HF-DE150-ES	150 kWe	Perkins 1106D-E	EPA ESE	Electronic Direct Injection	38.8 L/hr 10.3 gal/hr
HF-DE175-ES	175 kWe	Perkins 1106D-E	EPA ESE	Electronic Direct Injection	44.8 L/hr 11.8 gal/hr
HF-DE200-ES	200 kWe	Perkins 1106D-E	EPA ESE	Electronic Direct Injection	51.0 L/hr 13.5 gal/hr

Common Specifications

Rating	EPA ESE
Alternator	Stamford — Brushless Self-Exciting
Power Factor	0.8
Frequency	60 Hz 1800 RPM
Voltage	See output options below
Regulation	±1% (No Load to Full Load)
THD	<5%
Cooling	Water-Cooled — Radiator
Fuel	ULSD Diesel HVO (EN 15940) Compatible
Start	Electric — 12V / 24V Battery
Controller	DSE7320 4G Remote Ready
Warranty	2 Years / 2,000 Hours

Engine, Fuel & Cooling

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Air Filter Restriction Indicator
- Fan Guard
- SS Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Oil Temperature Sender with Alarm
- Block Heater w/ Receptacle
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- HVO (EN 15940) Drop-In Compatible

Alternator, Control & Protection

- Class H Insulation | Brushless Excitation
- Sealed Bearing | Skewed Stator | 2/3 Pitch
- Full Load Capacity Alternator
- Internal Genset Vibration Isolation
- Separation of Circuits — High/Low Voltage
- DSE7320 Controller | UL / NFPA 110 Lvl 1
- Digital Engine Governor + Voltage Regulator
- Modbus RTU / TCP/IP + Ethernet Remote Comms
- Alarm & Event Logging with Real-Time Stamp
- High/Low Oil Pressure & Coolant Level Alarms
- Over/Under Volt, Freq & Speed Protection
- Over Current | Phase Short Circuit Protection

Fuel Tank (Default: 10-Hour Runtime)

- Double Wall Construction
- Factory Pressure Tested @ 2 psi
- Rupture Basin Alarm
- Visual Fuel Level Indication
- Check Valve — Supply & Return Lines
- Polyester Powder Coat Paint
- ★ Optional Upgrade: UL 142 / ULC S601

Output Voltage Options (North America)

North America — 60 Hz

- 120/240 VAC Single-Phase 1.0pf
- 120/208 VAC 3-Phase 0.8pf
- 120/240 VAC 3-Phase 0.8pf
- 277/480 VAC 3-Phase 0.8pf
- 347/600 VAC 3-Phase 0.8pf

★ Custom voltage upon request



Model	Enclosure (mm)	Enclosure (in)	Weight (kg)	Weight (lb)
125 kWe	3300×1210×1780 mm	129.9×47.6×70.1 in	2,100 kg	4,630 lb
150 kWe	3300×1210×1781 mm	129.9×47.6×70.1 in	2,200 kg	4,850 lb
175 kWe	3300×1210×1782 mm	129.9×47.6×70.2 in	2,400 kg	5,291 lb
200 kWe	3300×1210×1783 mm	129.9×47.6×70.2 in	2,600 kg	5,732 lb

EPA ESE

UL / CSA Ready

NFPA 110 Lvl 1

ISO 8528



Industrial — 225 to 275 kWe — Volvo Penta TAD | EPA ESE

Model SKU	Power (Standby kWe)	Engine	Emission Rating	Fuel Injection Method	Fuel Consumption @ Full Load
HF-DE225-ES	225 kWe	Volvo TAD851GE	EPA ESE	Common Rail Electronic	56.8 L/hr 15.0 gal/hr
HF-DE250-ES	250 kWe	Volvo TAD852GE	EPA ESE	Common Rail Electronic	63.1 L/hr 16.7 gal/hr
HF-DE275-ES	275 kWe	Volvo TAD853GE	EPA ESE	Common Rail Electronic	69.4 L/hr 18.3 gal/hr

Common Specifications

Rating	EPA ESE
Alternator	Stamford — Brushless Self-Exciting
Power Factor	0.8
Frequency	60 Hz 1800 RPM
Voltage	See output options below
Regulation	±1% (No Load to Full Load)
THD	<5%
Cooling	Water-Cooled — Radiator
Fuel	ULSD Diesel HVO (EN 15940) Compatible
Start	Electric — 12V / 24V Battery
Controller	DSE7320 4G Remote Ready
Warranty	2 Years / 2,000 Hours

Engine, Fuel & Cooling

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Air Filter Restriction Indicator
- Fan Guard
- SS Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Oil Temperature Sender with Alarm
- Block Heater w/ Receptacle
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- HVO (EN 15940) Drop-In Compatible

Alternator, Control & Protection

- Class H Insulation | Brushless Excitation
- Sealed Bearing | Skewed Stator | 2/3 Pitch
- Full Load Capacity Alternator
- Internal Genset Vibration Isolation
- Separation of Circuits — High/Low Voltage
- DSE7320 Controller | UL / NFPA 110 Lvl 1
- Digital Engine Governor + Voltage Regulator
- Modbus RTU / TCP/IP + Ethernet Remote Comms
- Alarm & Event Logging with Real-Time Stamp
- High/Low Oil Pressure & Coolant Level Alarms
- Over/Under Volt, Freq & Speed Protection
- Over Current | Phase Short Circuit Protection

Fuel Tank (Default: 10-Hour Runtime)

- Double Wall Construction
- Factory Pressure Tested @ 2 psi
- Rupture Basin Alarm
- Visual Fuel Level Indication
- Check Valve — Supply & Return Lines
- Polyester Powder Coat Paint
- ★ Optional Upgrade: UL 142 / ULC S601

Output Voltage Options (North America)

North America — 60 Hz

- 120/240 VAC Single-Phase 1.0pf
- 120/208 VAC 3-Phase 0.8pf
- 120/240 VAC 3-Phase 0.8pf
- 277/480 VAC 3-Phase 0.8pf
- 347/600 VAC 3-Phase 0.8pf

★ Custom voltage upon request



Model	Enclosure (mm)	Enclosure (in)	Weight (kg)	Weight (lb)
225 kWe	3900×1550×2250 mm	153.5×61.0×88.6 in	2,900 kg	6,393 lb
250 kWe	3900×1550×2250 mm	153.5×61.0×88.6 in	3,300 kg	7,275 lb
275 kWe	3900×1550×2250 mm	153.5×61.0×88.6 in	3,500 kg	7,716 lb

EPA ESE

UL / CSA Ready

NFPA 110 Lvl 1

ISO 8528

★ Need above 275 kWe?

Please consult a Haifeng Key Account Executive for extended range availability and lead time details.



01

Compliance: Install With Confidence

EPA Certified — Every Unit Ships Ready to Permit

- EPA Emergency Stationary Engine certified on every unit
- Engine sticker + PDF EPA certificate included in package
- All electrical components UL / CSA ready as standard
- Your electrician installs it — no compliance questions asked
 - No after-treatment device required
 - Full wiring diagrams, BoM & shop drawings supplied



EPA Engine Sticker
Conforms to 2025 U.S. EPA Regulations



Stamford Alternator
UCI Series | CSA Listed

02

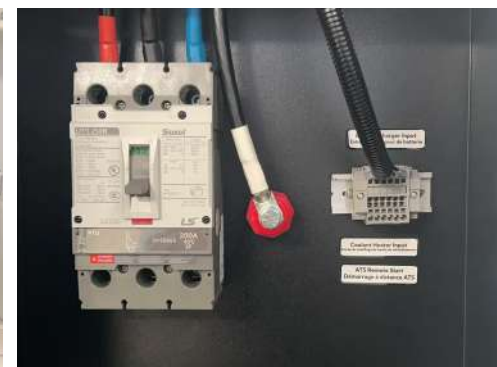
Lead Time: 3 Weeks Ex-Warehouse

Ready Stock — All 13 Models — No Factory Wait

- Maximum 3-week lead time across the full model range
 - Ready-stock engines sitting in our warehouse now
- Ex-warehouse commitment — you know exactly when it ships
 - All models: 20 kWe residential to 275 kWe industrial
 - ATS panel pre-wired and tested before shipment
 - Factory acceptance test (FAT) on every unit



DSE7320 Control Panel
NFPA 110 Lvl 1 | Auto-Start Ready



Main Breaker (MCCB)
UL Listed | 200A 3-Phase

03

Parts & Service: No Lock-In

100% Open Supply Chain — Any Dealer, Any Technician

- No proprietary parts — fully open supply chain
- Perkins parts same-day from any authorized dealer
- Volvo Penta global dealer network for 225–275 kWe
 - Any certified technician can service — no lock-in
- Stamford alternator — universally stocked & serviced
- DSE7320 — standard controller, supported worldwide

READY TO SPEC YOUR PROJECT?

Book a Pre-Sales Meeting

with a Haifeng Key Account Executive

Load Analysis · AHJ Submittal Support · Fuel Review · Custom Sizing

sales@haifengmachinery.com | WhatsApp: +1 416 317 9500

