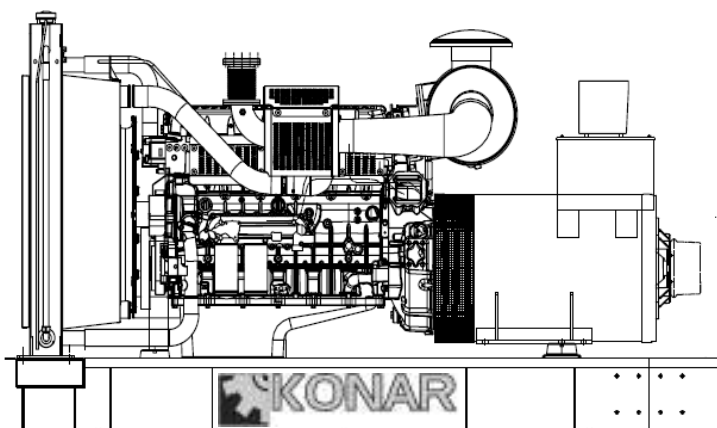




## Model: A350IVX Diesel Generator Set

### FEATURES

- Konar provides one-source responsibility for the generator system and its accessories.
- All units and components are factory tested during prototype and manufacturing stages assuring long product life.
- Generator set accepts one-step 100% of full load per NFPA 110.
- A **one-year** limited **warranty** covers all systems and components. Extended warranties are available.
- Rugged 4 cycle heavy-duty diesel engine, with swirl intake ports for a low fuel consumption and excellent transient response.
- **Generator features:**
  - Unique Volts per Hertz compensated electronic AVR excitation system delivers reliable voltage response for in rush loads.
  - Brushless, rotating-field generator has low reactance, 2/3 pitch, class H insulation, minimizes voltage distortion when powering non-linear loads.
- **More features:**
  - Controllers are available to meet your most demanding applications.
  - In the event of low oil pressure or high coolant temperature the self-protecting system will automatically stop the engine.
  - Aluminum Enclosure Sound Attenuated
  - Integrated fuel Tank – 150gal single wall or optional 80gal double wall UL142 listed



### GENERATOR SET RATINGS

Model	Volt Code	Voltage	Winding Connection	Phase	Power Factor	Hz	Amps Standby	Standby kW / kVA	Prime kW / kVA
A325IVX	60	600 / 346	12 - HI WYE	3	0.8	60	421	350 (438)	336 (420)
A325IVX	61	480 / 277	12 - HI WYE	3	0.8	60	527	350 (438)	336 (420)
A325IVX	63	440 / 254	12 - HI WYE	3	0.8	60	575	350 (438)	336 (420)
A325IVX	64	240 / 139	12 – HI DELTA	3	0.8	60	1054	350 (438)	336 (420)
A325IVX	65	220 / 127	12 – LOW WYE	3	0.8	60	1150	350 (438)	336 (420)
A325IVX	66	208 / 120	12 – LOW WYE	3	0.8	60	1216	350 (438)	336 (420)
A325IVX	67	240 / 120	12 – 2 DELTA	1	1.0	60	1458	350 (350)	336 (336)
A325IVX	51	415 / 240	12 – HI WYE	3	0.8	50	558	321 (401)	327 (409)
A325IVX	53	380 / 220	12 – HI WYE	3	0.8	50	610	321 (401)	327 (409)
A325IVX	55	220 / 127	12 – LOW WYE	3	0.8	50	1054	321 (401)	327 (409)
A325IVX	57	220 / 110	12 – 2 DELTA	1	1.0	50	1459	321 (321)	327 (327)

Stand-By ratings are continuous electrical service during the interruption of normal power. No overload capacity is specified at these ratings. Prime ratings available with variable loads are continuous, 10% overload capacity for one hour in twelve hours periods.

Both ratings per BS 5514, DIN 6271, ISO-3046

600 Voltage available only with Stamford alternator.

## ALTERNATOR SPECIFICATIONS

Type	Four pole, revolving field
Rotor Insulation	Class H
Temperature Rise	150°C Standby
Material	Epoxy resin
Line-To-Line Harmonic Factor (Max)	5%
Telephone Interference Factor (Tif)	1%
Voltage Regulator	Solid State
Cooling	Self-ventilated and drip proof
Bearing	1 each, pre-lubed
Coupling	Direct, Flexible Disc
Load Capacity (Standby)	100%
Overload Capacity (Prime)	110%
Voltage Regulation	
No Load To Full Load	±1 %
One Step Load Acceptance	
Per NFPA 110	100%

- ❑ Four pole, revolving field, direct coupled to engine flywheel, provides excellent alignment.
- ❑ Insulation is of class H, ready to be used on harsh environments where sea spray, sand and chemical corrosion are existing factors.
- ❑ Voltage regulator provides Volts/Hertz compensation to improve the motor starting capabilities, therefore support the engine handling transient loads.
- ❑ Dynamically balanced rotor, with damper winding, help dissipate transient voltage interference during load variations.
- ❑ The windings have a 2/3 pitch in order to reduce the harmonic content of voltage.
- ❑ Robust mechanical structure permits easy access to connections.

## ENGINE SPECIFICATIONS

Manufacturer	IVECO
Model	C13TE3S
Bore	5.3 in. (135mm)
Stroke	5.9 in. (150mm)
Number Of Cylinders	6
Piston Displacement	787.2 in. <sup>3</sup> (12.9 L)
Compression Ratio	16.0:1
Combustion System	Direct Injection
Engine Type	In-Line – 4 Cycle
Aspiration	Turbocharged after cooled air/air
Engine Crankcase Vent System	Closed
Cylinder	Borable
Crankshaft Material	Forged Steel
Governor, Make	Mechanical
Frequency Regulation,	
No Load To Full Load	5 %
Air Cleaner	Dry Element

- ❑ Robust industrial grade IVECO diesel engine, for reliable endurance.
- ❑ Direct fuel injection system and swirl intake ports combine for a low fuel consumption and excellent transient response.
- ❑ Cylinder Head provides superior airflow through specially designed intake manifold ports, large valves and seats resulting in superior engine performance in torque reserve, fuel consumption and emissions.
- ❑ Oil and filters interval for replacement every 600 hrs.
- ❑ Dynamically Balanced Crankshaft, with induction-hardened journal surfaces significantly increases wear life.
- ❑ Poly Belt Fan Drive provides superior noise and vibration reduction.

## STANDARD EQUIPMENT

### ENGINE

- Air Cleaner
- Fuel Pump
- Fuel Filter
- Oil Pump
- Full Flow Oil Filter
- Jacket Water Pump
- Thermostat and Housing
- Exhaust Manifold Dry
- Oil Cooler
- Blower Fan & Fan Drive
- Radiator - Unit Mounted
- Electric Starting Motor 12v
- Housing & Flywheel
- Charging Alternator - 12v

- Battery Kit & Battery Rack

### GENERATOR

- Synchronous, Brush-less
- Four Pole
- Single Bearing
- Direct Coupled With Flex
- Class H Insulation
- Drip-Proof Construction

### CONTROL PANEL

- Digital Control Panel
- Auto Start Module
- Electric Hour Meter
- Stop-Manual-Auto Pushbuttons

- Standard Engine Control Monitoring
- Automatic Shutdowns
- \* High Water Temperature
- \* Low Oil Pressure
- \*Protective 12vdc Circuit Breaker
- Display Lights For:
  - \* Water Temperature
  - \* Oil Pressure
  - \* Overcrank
  - \* Underspeed
  - \* Overspeed
  - \* Battery Charging

### GENERAL

- Rain Cap
- Oil Drainage kit
- Integrated Fuel tank
- Radiator Recovery Tank
- In Frame Lifting Points

## INSTALLATION AND APPLICATION DATA

	Item	Units	Type of Operation and Application			
			60 Hz		50 Hz	
			Prime	Standby	Prime	Standby
<b>Engine</b>	Rated Speed	rpm	1800		1500	
	Gross Engine Output	bhp (kWm)	485 (362)	533 (398)	472 (352)	518 (387)
	BMEP	psi (kPa)	270 (1867)	297 (2051)	316 (2180)	347 (2393)
	Mean Piston Speed	Ft/s (m/s)	29.3 (8.9)		24.4 ( 7.4)	
<b>Cooling System</b>	Ambient Air Temperature	°F (°C)	122 (50)			
	Engine Heat Reject to Coolant	Kcal/kWh	348			
	Pusher Fan Air Flow	Cf/s (m3/s)	217.9 (6.17)			
	Coolant Flow	gal/min (L/min)	41.8 (158.33)			
	Coolant Capacity	gal (L)	17.6 (67)			
	Thermostat Start to Open	°F (°C)	83-95 (28-35)			
	Thermostat Fully Open	°F (°C)	103 (40)			
<b>Fuel System</b>	Fuel Type		Diesel #2			
	Fuel Consumption @ 50% Power	gal/hr (L/hr)	12.5 (47.5)		11.0 (41.9)	
	Fuel Consumption @ 80% Power	gal/hr (L/hr)	19.3 (73.4)		16.8 (63.8)	
	Fuel Consumption @ 100% Power	gal/hr (L/hr)	24.2 (91.8)		21.4 (81.3)	
<b>Air Requirement</b>	Combustion Air Flow	ft <sup>3</sup> /min (m <sup>3</sup> /min)	575.6 (16.3)			
	Air Intake Restriction	In.H <sub>2</sub> O (kPa)	20.1 (5)			
	Exhaust Temperature	°F (°C)	1083.2 (584)			
	Maximun Allowable Back Pressure	In.H <sub>2</sub> O (kPa)	20.7 (5)			
<b>Lubrication System</b>	Specific Oil consumption	(% of fuel consumption)	0.1			
	Total Engine Oil Cap. w/filter	qt (L)	9.3 (35)			
	Oil Filter Type		Cartridge			
<b>Engine Electricals</b>	Battery Charging Alternator	Volts, Ground	24V, negative			
	Battery Charging Alternator	Rated amps	45			
	Recommended Battery Cold Crank	CCA amps	1200			
	Starter Motor	Volts, Ground	24V, negative			
<b>Operation</b>	Temperature and Altitdude Losses		Consult Factory			

## OPTIONAL EQUIPMENT

### Cooling System

- Remote Radiator
- Jacket Water Heater
- Crankcase Oil Heater

### Fuel System

- Fuel/Water Separator
- Day Tank
- Above Ground Fuel Tank
- Auxiliary Fuel Pump
- Sub-Base Fuel Tank
  - Double Wall
  - UL Listed

### Exhaust System

- Industrial Grade Muffler
- Residential Grade Muffler
- Critical Grade Muffler
- Super Critical Grade Muffler

### Start System

- Battery Nicad

- Battery Warmer Plate
- Battery Charger
  - Automatic Float Equalizing
  - Trickle

### Switchgear

- Main Line Circuit Breaker
  - Shunt trip
  - Auxiliary switch
- Automatic Transfer Switch
- Paralleling
- Protective Relays

### Generator

- Permanent Magnet Excitation
- Space Heaters
- Temperature Rise Detectors

### Control Panel

- Emergency stop button
- Microprocessor Control Panel
- NFPA 110 Ready

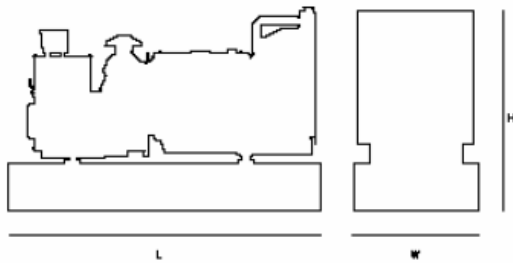
- Remote Annunciation Panel
- Audible Alarm

### General

- Spring vibration isolators
- Automatic Transfer Switch
- Metal Enclosure
  - Weather Resistant
  - Sound Attenuated
  - Aluminum
- Interior lights AC or DC
- Trailer
- Export Packaging
- Special Testing
- Warranties
  - \_\_\_\_ Year

For Other Options Consult

## DIMENSIONS AND WEIGHT



	Units	Open Unit	Enclosed Unit	Sound Att. Unit
Length	In. (mm)	128 (3251)	128 (3251)	171.5 (4356)
Width	In. (mm)	56 (1422)	56 (1422)	56 (1422)
Height	In. (mm)	69 (1753)	83 (2108)	83 (2108)
Weight	Lbs (kg)	6550 (2971)	6850 (3107)	6986 (3169)

General configuration for reference only, do not use these dimensions for installation purposes. Contact your local dealer for certified drawings.