



Diesel Generators 10 - 3200 Kw | Alternators 5 - 3500 Kva | Transfer Switches | Fuel Tanks | Trailers | Engine Parts | Alternator Parts  
SDMO | KOHLER | BROADCROWN | HIPOWER | JOHN DEERE | CUMMINS | PERKINS | MITSUBISHI | VOLVO | STAMFORD | LEROY SOMER

## GP-C45-60

**CUMMINS 4BT3.9G2 Diesel Engine**  
**STAMFORD CUMMINS PI144K Alternator**  
**DEEPSEA DSE7320 Controller**

### 28 KW CUMMINS GENERATOR

44 KW 55 KVA CUMMINS Diesel Generator Set, Fully packaged:

- CUMMINS Heavy duty diesel engine, 4 stroke, 1800rpm, Electronic
- STAMFORD CUMMINS alternator. IP23 protection, Insulation class H
- Main line circuit breaker, maximum output rated for complete protection
- Digital auto-start/stop control panel. CE and UL compliant
- Incorporated metallic fuel tank for day use. Electronic fuel level sender
- Auto Start control feature included for interoperation with ATS/AMF
- 24V charging alternator and 24V DC electric starter motor
- 24V charged DC starting battery with electrolyte and cables
- Dry type air filter, fuel filter and oil filter elements installed
- Mechanically welded chassis with vibration isolators
- Each unit prototype and individually factory load bank tested
- The generator accepts 100% rated load in one step as per NFPA110 and meets ISO8528-5 class G-3 for transient response
- Compliant with ISO3046, ISO8528, BS4999, BS5514, BS5000PT99, AS1359, IEC34, UTE5100, VDE0530 and ISO9001:2000

#### AVAILABLE ACCESSORIES AND OPTIONS:

- Steel or Aluminum weather proof, sound attenuated enclosures
- UL142 listed, double wall fuel tanks from 50 to 10,000 Gal
- UL1008 listed, automatic transfer switches from 50 to 3000 Amp
- D.O.T. compliant heavy duty road trailers from 3000 to 30000 Lbs
- Automatic battery chargers, Engine preheaters, Remote annunciators and many more



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions - Open	Fuel Tank
480/277	44 / 55	40 / 50	66		
460/265	44 / 55	40 / 50	69		
440/254	44 / 55	40 / 50	72		
240/120 DELTA	44 / 55	40 / 50	132		
220/110 DELTA	44 / 55	40 / 50	144		
220/127	44 / 55	40 / 50	144		
208/120	44 / 55	40 / 50	153		

### POWER DEFINITION

**PRP** : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

**ESP** : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

### TERM OF USE

Standard reference conditions ESP/PRP 25 C°/25 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

### WEATHER / SOUND PROOF ENCLOSURES



Dimensions - Enclosed

Weight - Enclosed

Tank

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## CUMMINS DIESEL ENGINE SPECIFICATIONS

GENERAL DATA	Engine model	CUMMINS 4BT3.9G2, TURBOCHARGED, 4 Cylinders
	Cylinders-arrangement	4-L
	Displacement	3.9L
	Bore (mm) X Stroke (mm)	102 X 120
	Compression ratio	18.0 : 1
	Speed (RPM)	1800
	Maximum stand-by power at rated RPM (kW)	44KW (59HP)
	Frequency regulation (%)	+/-5.0%
	Governor	ELECTRONIC
FUEL SYSTEM	Fuel consumption 100% load	10.7 L/hr [2.8 Gal/hr]
	Fuel consumption 75% load	8.4 L/hr [2.2 Gal/hr]
	Fuel consumption 50% load	6.2 L/hr [1.6 Gal/hr]
	Fuel consumption 25% load	4.2 L/hr [1.1 Gal/hr]



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## STAMFORD CUMMINS ALTERNATOR SPECIFICATIONS

GENERAL DATA	Alternator brand	STAMFORD (CUMMINS GENERATOR TECHNOLOGIES)
	Alternator	PI144K
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	<1000
	Overspeed (rpm)	2250
	Number of pole	4
	Excitation system	Self Excited (P.M.G. Optional)
	Insulation class / Temperature class	H / H
	Automatic Voltage Regulator	STAMFORD AS480
	Coupling	Direct / Single Bearing
	Voltage regulation 0 to 100%	+/-1.0%



# Generator Technologies

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## GENERATOR CONTROL PANELS

### Standard

### DEEPSEA DSE 7320: Digital + Auto start/stop



The Deepsea DSE 7320 control features both Manual and Automatic start/stop control of the generator and full CANBUS connectivity for control and protection. The 132x64 LCD display, Emergency stop button and five key menu are highly ergonomic and intuitive.

- Fully configurable via a free downloadable PC software
- 250 events log including date and time make fault finding effortless
- Remote monitoring and control via Ethernet/RS485 and SMS messaging via GSM/SIM card options available
- Coolant temperature and Oil pressure alarm/shutdown
- Oil pressure and low pressure alarm/shutdown
- Oil temp, hours, battery charge, Frequency, Kw, KVA and PF display
- Voltage under/over protection, Amp over current protection, and More!

### Option

### DEEPSEA DSE 8610: Digital + Auto start/stop + Paralleling



The Deepsea DSE 8610 control features all the excellent capabilities of the DSE 7320 combined with easy to use multi-generator load sharing:

- Up to 32 generators paralleling
- Peak lopping
- Sequential starting of generator sets
- Manual voltage/frequency adjustments
- Automatic hours run balancing
- Generator load demand
- Dead bus sensing and Bus failure detection
- Voltage frequency matching
- And many more highly programmable paralleling features

## GENERATOR ACCESSORIES AND OPTIONS

### Option

### Automatic Transfer Switches, UL1008 listed: 100 to 4000A



With a Series 300 transfer switch, you get a product backed by ASCO Power Technologies, the industry leader

- True double-throw operation: single solenoid design is inherently interlocked & prevents contacts from stopping between sources
- Easy-to-read flush-mounted control and display panel provides LED indicators for switch position and source availability
- Standard engine exerciser for weekly automatic testing with or without load
- UL 1008 listed for Transfer Equipment and CSA C22.2 listed
- NFPA 110 for Emergency & Standby Power & the National Electrical (NEC) Articles 700, 701 and 702

### Option

### Fuel Tanks, UL142 listed: 50 to 5000 GAL



- UL listed. Secondary containment tank meeting UL 142 tank requirements
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37
- Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or emergency conditions
- Electrical stub-up area with removable end channel
- Normal vent • Inner tank emergency vent sized to UL 142 specs
- Direct reading mechanical fuel gauge • Fuel in basin switch
- Satin black paint finish

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**G**

**Weatherproof / Super Silent  
Enclosure**

## STANDARD FEATURES

- 12 gauge electro-zinc powder coated steel for maximum corrosion resistance (Phosphatizing degreasing, Non-chromic passivation, Osmosis purified rinsing and High durability polyester resin thermosetting powder paint)
- 29dB(A) Internal-mounted critical silencer and flexible exhaust connector offering maximum component life and operator safety
- Fade-, scratch-, and corrosion-resistant. Automotive-grade textured finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention
- Up to 51mm (2in) Acoustic insulation with hydrocarbon sealing film that meets FMVSS 302 flammability classification and repels moisture absorption
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design
- Service access. Multi-personnel doors for easy access to generator set controller, breaker and service points
- Externally mounted emergency stop button, Single point lifting hook and Tamper proof "securit" viewing control window
- Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosure to reduce ambient noise
- Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow
- Heavy duty Polyamide plastic hinges, Dichromate galvanized bolting and Stainless steel rivets for lifetime longevity
- Meets and exceeds NFX41002 Salt spray test, NFT30049 UV Performance test, NFT30038 Paint adhesion test and 2000/14EC Low sound directives



Model	Sound level			Dimensions (in)	Weight (lbs)	Tank
	dB(A)@3ft	dB(A)@23ft	LWA			
GP-C45-60						

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