

ST-P Series ST-C280GF

280KW standby power, 256KW prime power at 60Hz

Powered by Cummins engine 6LTAA9.5-G1

Diesel generator set technology data



Output Ratings				
Model: ST-C280GF	Prime		Standby	
Voltage	KVA	KW	KVA	KW
440V at 60Hz	320	256	350	280
Ratings at 0.8 power factor Image shown may not reflect actual package				



Output Ratings	
Engine brand	CUMMINS
Engine model	6LTAA9.5-G1
Alternator Brand	SUTECH
Alternator Model	ST314C
Control System	SMARTGEN
Frequency / Phase	60Hz
Fuel Tank Capacity (L)	8 HOURS`
Standard Package	PLYWOOD CASE
Size (MM)	3700×1300×2120
Weight (KG)	2970

- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load, 100% load, 110% load and the checking and proving of all control and safety shut-down functions;
- 24V DC start motor;
- Equipped 24V high performance maintenance-free lead-acid starting batteries and connecting with cables;
- Equipped with industrial silencer and flexible exhaust hose;
- Designed to Comply with ISO8528/GB2820;
- Powered by Cummins engine, SUTECH alternator and SmartGen control panel

Notes:

*Prime Power Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

**Standby Power Standby duty, operation under variable load, without over load;

Standard Reference Conditions Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.



Engine technology data



Engine Model	6LTAA9.5-G1
Engine Manufacturer	CUMMINS
Number of Cylinders	6 cylinders in line
Cycle	4 stroke
Air Intake system	Turbocharged and Air-air charge cooled
Bore × Stroke	116mm x148mm
Displacement	9.5L
Compression ratio	N/A
Prime Power/Speed	280kw / 1800rpm
Standby Power/Speed	310kw / 1800rpm
Speed Governor	Electronic
Cooling System	Forced water cooling cycle
Steady speed droop	≤1%
Total lubrication system capacity	28.1L
Coolant capacity (engine only)	55.5L
Fuel Consumption at 100% Load	199g/kw.h (at 1800RPM)
Starter Motor	DC24V
Alternator	DC24V

Alternator technology data



Alternator Model	ST314C
Max power	280KW
Frequency/speed	60HZ/1800RPM
Exciter type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation Grade	H
Protection Grade	IP23
Phase	3 phases

STAMFORD[®]

MAGNAPLUS[®]

LEROY SOMER

ABB and other brands

SmartGen



SmartGen HGM series controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three “remote” (remote control, remote measure and remote communication). The controller uses LCD display, optional display interface including Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French with easy and reliable operation.

[HGM9600 series](#), [HGM9500 series](#), [HGM9300 series](#), [HGM8000 series](#), [HGM7110 series](#), [HGM7000 series](#), [HGM6300 series](#), [HGM6100 series](#), [HGM1700 series](#), [HSC900 series](#), [HGM400 series](#) etc.

DEEP SEA



DSE Genset® is an intelligent range of single-set and multi-set generator control solutions, mains (utility) protection relays, digital automatic voltage regulators (AVR's), remote communications devices and expansion modules. Each range has been designed and manufactured by our industry leading experts to deliver a range of features and benefits that set new standards across the industry.

Manual & auto start control modules: [DSE7410 series](#), [DSE7310 series](#), [DSE7210 series](#), [DSE7110 series](#), [DSE6110 series](#), [DSE6010 series](#) etc.
Auto mains utility failure control modules: [DSE7420 series](#), [DSE7320 series](#), [DSE7220 series](#), [DSE7120 series](#), [DSE6120 series](#), [DSE6020 series](#) etc.

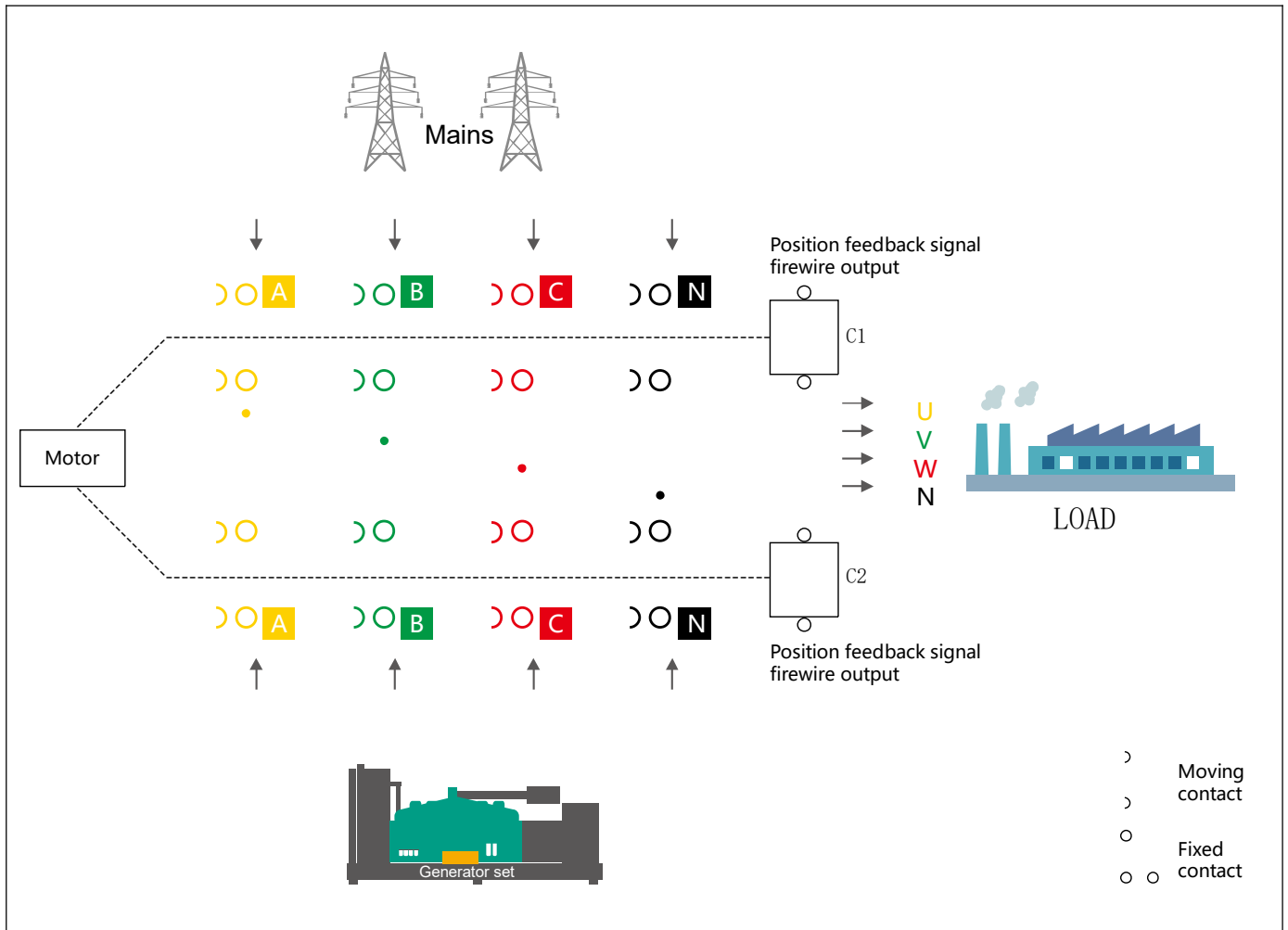
ComAp



IntelliLite is a product family designed for standby and prime power applications where there is no need for synchronization. The full range of models provides end users with excellent flexibility and choices, with special emphasis on communications and user experience.

[IntelliLite NT MRS 10](#), [IntelliLite NT MRS 19](#), [IntelliLite MRS 16](#), [IntelliLite MRS 25](#), [IntelliLite NT AMF 20](#), [IntelliLite NT AMF 25](#), [IntelliLite AMF 20](#), [IntelliLite AMF 25](#) etc.

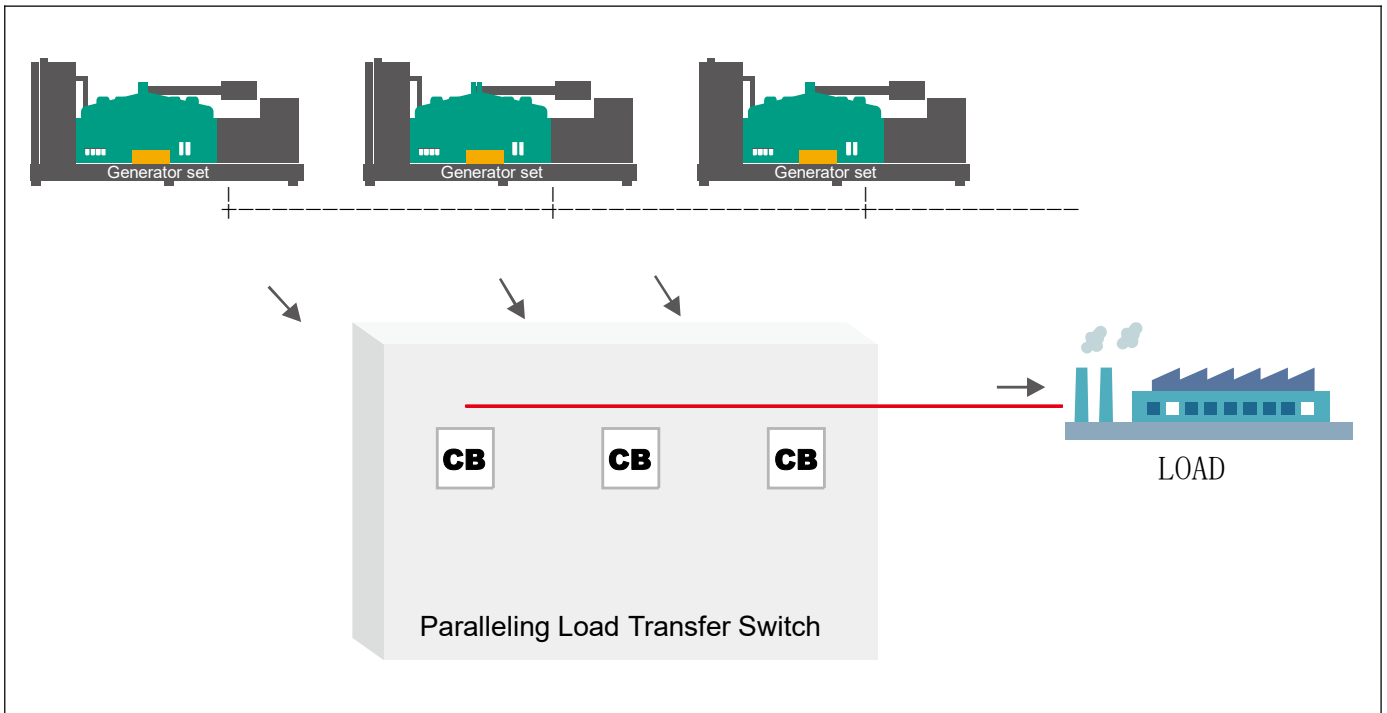
And other brands



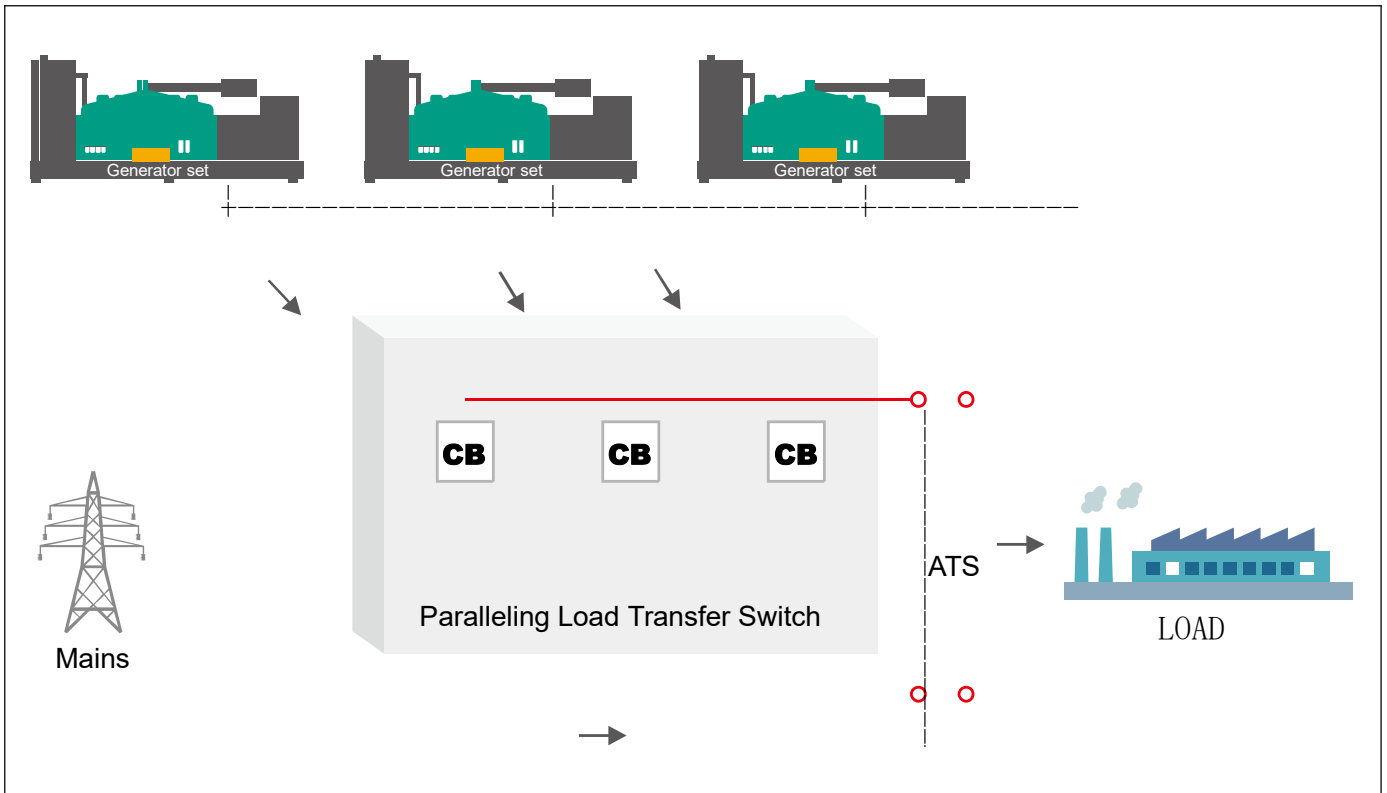
Silent type

Silent type	
	<p>Size: 3700 × 1300 × 2120 (mm)</p> <p>Weight: 2970 kg</p>

Multiple generator set paralled supplying an isolated bus



Multiple generator set standby to single or multiple mains supply



Standard accessories



Standard Accessories	Open type	Silent type
Sound-proof & Weather-proof Canopy	N/A	✓
Daily base fuel tank. 8 hours capacity	N/A	✓
Single-bearing generator again drops	✓	✓
Intelligent LED display control panel	✓	✓
Speed governor	✓	✓
Electric start and 24v charger	✓	✓
Standard air filter, oil filter, fuel filter	✓	✓
Cooling water tank	✓	✓
High-efficient silencer.	✓	✓
Exhaust elbow	✓	✓
Storage battery	✓	✓
Steel base-frame against vibration	✓	✓
Soft pipe for fuel and handle for lube going-out	✓	✓
Operation& Maintenance manual.	✓	✓

Contact us



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