• LXC9210 Series

• LXC9220 Series

• Performance and characteristics

LXC9210：Auto Start Module. It controls gen-set to start or stop automatically by remote start signal.
LXC9220：Auto Main Failure, updates based on LXC9210, especially for automatic system composed by gens and mains.

Main characteristics：

- With ARM-based 32-bit MCU, highly integrated hardware, new reliability level;
- 240x128 LCD with backlight, multilingual interface(including English, Chinese or other languages) which can be chosen at the site, making commissioning convenient for factory personnel;
- All parameters can use the computer via USB, RS232, RS485 interface to connect and adjust, while the internal FLASH memory within the controller in the system when power is not lost;
- 99% of the parameters can be set directly from the front panel for easy on-site commissioning;
- Rs485 communication port enabling remote control, remote measuring, remote communication via ModBus protocol (controller with RS485 port only);

Special industry application characteristics:

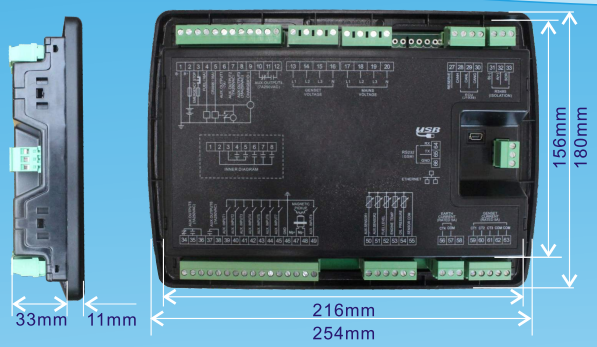
- Leasing industry applications: management provides the perfect solution: leased out via PC remote Management of the unit, you can monitor all operating parameters (oil pressure, water temperature, voltage, current, power, etc),you can always change the configuration to protect the unit is not proper application, can record 200 detailed fault information, including: time to failure, because ,when the voltage, current, power, oil pressure, water temperature and other key parameters, and ready to upload to the monitoring machine. Another multi-level password management options to facilitate the lease management;
- Fire pump industry applications: Close electrical parameter measurement function, use powerful Programmable input and output ports and internal programmable logic to achieve automated pump control system. Instead of the conventional engine controller PLC + simple manner ,making the system more stable and reliable;
- Air compressor industry applications: Close voltage measurements protection, according to the need to configure programmable analog input, overload protection , with programmable digital inputs, complete startup control, temperature and pressure control, protection parameter settings.

• Technical Parameters

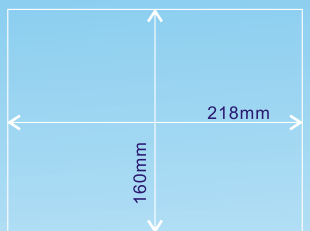
Project	Content
Operating Voltage	DC8.0V to DC35.0V, Continuous Power Supply.
Power Consumption	<4W (standby ⩽ 2W)
Alternator Input Range 3-Phase 4-Wire 3-Phase 3-Wire Single-Phase 2-Wire 2-Phase 3-Wire	 15V - 360 V AC (ph-N) 26V - 620 V AC (ph-ph) 15V - 360 V AC (ph-N) 15V - 360 V AC (ph-N)
Alternator Frequency	50 Hz /60Hz
Speed sensor voltage vpp	2.2 - 100Vpp (Peak to peak)
Speed sensor Frequency	10,000 Hz (max.)
Start Relay Output	16Amp Controller Power Voltage Output
Fuel relay output	16Amp Controller Power Voltage Output
Programmable Relay output1	7Amp Controller Power Voltage Output
Programmable relay output 2	7Amp Controller Power Voltage Output
Programmable relay output 3	7Amp Controller Power Voltage Output
Programmable relay output 4	7Amp 250VAC voltage free output
Close generator relay output 5	7Amp 250VAC voltage free output (LXC9220)
Close generator relay output6	7Amp 250VAC voltage free output (LXC9220)
Case dimension	254mm x 180 mm x 44 mm
Panel Cutout	218mm x 160mm
C.T. Secondary	5A (rated)
Working Conditions	Temperature: (-25 ～+ 70) ℃ Humidity: (20～90)%
Storage Condition	Temperature: (-40 ～+ 85) ℃
Protection Level	IP55: when waterproof rubber seal installed between controller and panel fascia. IP42: when waterproof rubber seal is not installed between the controller and panel fascia.
Insulating Intensity	Object: input/output/power Quote standard: IEC688-1992 Test way: AC1.5kV/1min leakage current: 3mA
Weight	0.86Kg

• Dimensions

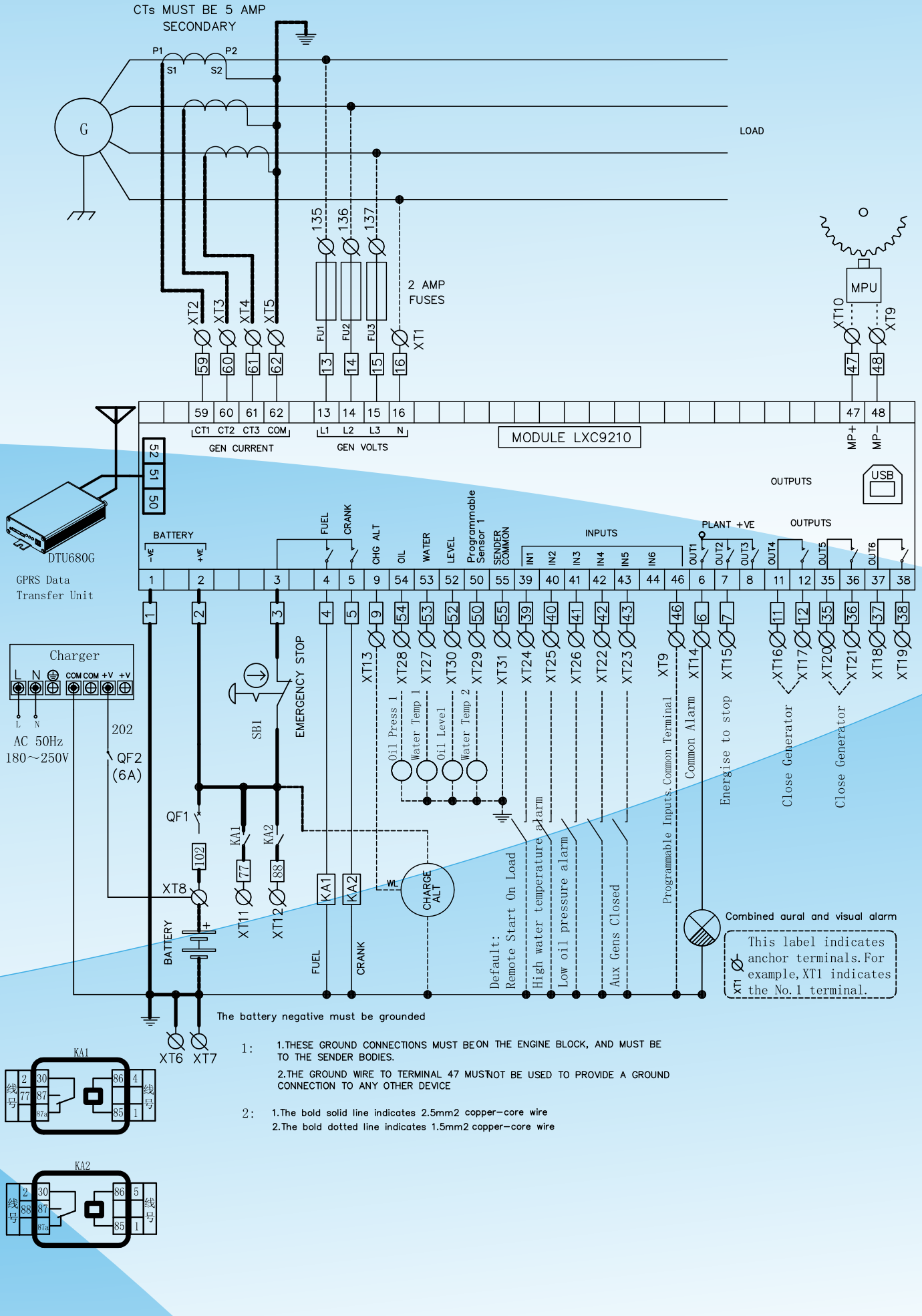
Operation Panel	W254mmxH180mm
Installation open orifice	W218mmxH160mm
Thickness	44mm



• Panel cutout dimensions



· LXC9210 Typical application diagram



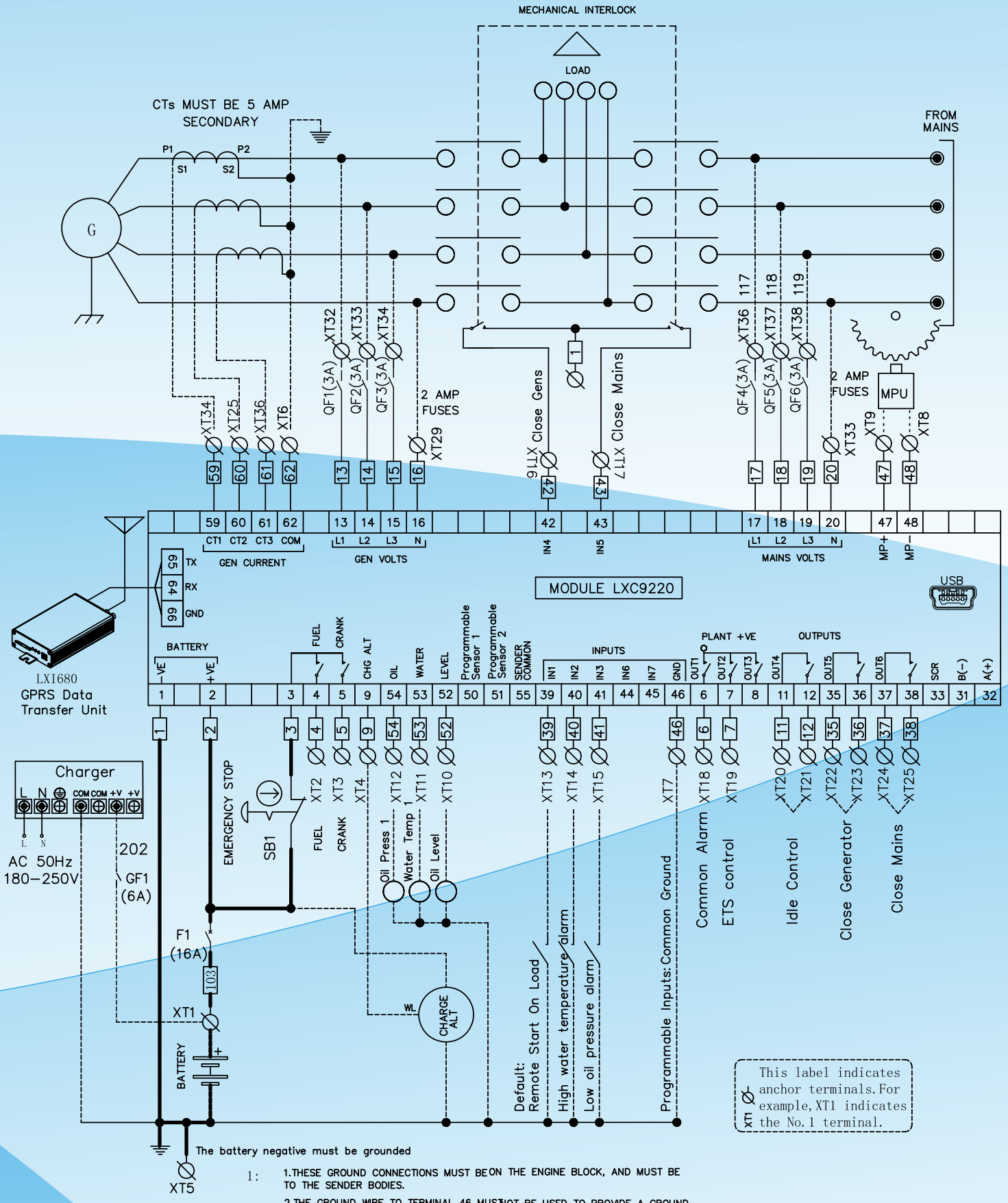
1: 1.THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES.

2.THE GROUND WIRE TO TERMINAL 47 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE

2: 1.The bold solid line indicates 2.5mm2 copper-core wire

2.The bold dotted line indicates 1.5mm2 copper-core wire

· LXC9220 Typical application diagram



1: 1.THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES.

2.THE GROUND WIRE TO TERMINAL 46 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE.

2: 1.The bold solid line indicates 2.5mm2 copper-core wire.

2.The bold dotted line indicates 1.5mm2 copper-core wire.

· LXC63X0 Generator remote monitoring program ·

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