

## GENSET CONTROLLER DC60D Series



This series controller is specialized for Diesel / Gasoline / Gas Genset Start, Stop, Parameters monitoring, faults-checking as well as data setting.

4.3 inch colorful LCD screen display with brand new UI design is adapted in this controller that the relative failures can be displayed directly. All the parameters can be displayed by simulated indicators and words. Besides, LCD screen can display various faults in the same time that the genset will be stopped once it can not work smoothly.

There are Chinese/English/Spanish/Russian interface options, more language can be set according to user's request. All the parameters can be configured through the front face buttons or use programmable interface by RS485 or USB to adjust via PC. It can be widely applied for all kinds of auto control system of gensets.

### Features

There are four Models under DC60D series.

DC60D : used for single machine automation, Start/Stop through remote start signal.

DC62D :Based on DC60D, it adds Mains monitoring and AMF (Mains/Generator automatic switching control) , especially suitable for the automation system composed by mains and genset.

DC60DR : Based on DC60D, it adds RS485 port.

DC62DR : Based on DC62D, it adds RS485 port.

### MAIN FEATURES

- 32 units Micro-processor technology is used.
- 4.3 inch TFT colorful big screen LCD, option language interface(Chinese/English/Spanish/Russian), user's language set if necessary.
- Indicator and number display through UI surface.
- Acrylic material is adapted to protect the screen.
- The silica gel panel is effective, waterproof, oil resistant and UV resistant. It has good handle and long service life.
- USB Port: parameters can be set even without power.
- With RS485 communication port, can achieve "Three Remote" functions via MODBUS protocol.
- Various kinds of parameters display.
- Input/output function, status can be shown directly.
- More categories of surface setting.
- Real time clock inside: preset time operate and auto maintenance is available. Genset working plan can be set as per week or month.
- Three class protection countdown function, which can set the maintenance time or date.
- Records function: relative faults shall be recorded in real time.
- It has 6 relay outputs, 4 of which are configurable, and more than 25 functions can be selected for each channel, and 3 groups of outputs are passive contacts.
- 5 switch value input, and each can be set as max 30 functions.
- 3 sensor simulation input connectors, 6 input types is configurable and various kinds of units can be set.
- Battery charging control function, which can protect the battery according to battery voltage status.
- Sensor can be self-defined by front face button or PC software.
- Adapt to 3P4W, 1P2W, 2P3W(120V/240V, 50/60HZ)
- Various of crank conditions(RPM, Frequency, Oil Pressure) can be chosen
- Control Protection: Auto Start/Stop of genset, load transfer (ATS control) and perfect failure display and protection.
- Standard water-proof rubber gasket. The waterproof can reach IP54.
- Module design: All the connections are adapted with European connectors so that installation, connection, repair and replacement can be more easily.

### PARAMETERS DISPLAY

- Engine RPM
- Engine oil pressure
- Engine water temperature
- Engine fuel temperature
- Engine cylinder temperature
- Engine Tank temperature
- Engine fuel level
- Engine battery voltage
- Charging voltage
- Mains Frequency (only for DC62D)
- Mains phase voltage L-N(only for DC62D)
- Mains phase voltage L-L(only for DC62D)
- Generator 3 Phase voltage L-N
- Generator 3 Phase voltage L-L
- Generator 3 phase current A
- Generator Frequency Hz
- Generator Power Factor COS φ
- Generator active power KW
- Generator apparent power KVA
- Generator reactive power KVar
- Current loading rate %
- Total average loading rate %
- Current consumption KWH
- Total consumption Kwh
- Total Crank times
- Current running time
- Total running time
- Three classes maintenance notice
- Current date / time

### PROTECTION

- Over speed
- Under speed
- Low oil pressure
- High water temperature
- High Oil temperature
- High Cylinder Temperature
- High Tank temperature
- Low fuel level
- Low oil level
- External emergency alarm
- D+ Opened
- RPM Lost
- Sensor Open
- Over Frequency
- Under Frequency
- Over voltage
- Under voltage
- Over current
- Non-balance of current
- Over power
- Lack of Phase
- Reverse phase sequence
- Gen load failure
- Gen unload failure
- Mains Load failure
- Mains unload failure
- Primary maintenance expire
- Secondary maintenance expire
- Maintenance expire
- Low water level alarm
- Emergency Stop
- Crank failure
- Over battery voltage
- Under battery voltage
- Charging failure
- Battery charging failure
- Stop Failure

### SPECIFICATION

Options	Parameters
Working voltage	DC8V~36V Continuous
Power consumption	Standby:24V:MAX 1W
	Working:24V:MAX 5W
AC Voltage Input	1P2W 30VAC-276VAC(ph-N)
	2P3W 30VAC-276VAC(ph-N)
	3P4W 30VAC-276VAC(ph-N)
Rotate speed sensor Frequency	200-10000Hz
MAX Accumulating Time	99999.9Hours(Min Store time:6min)
Fuel Relay Output	16Amp DC+VE Supply voltage
Start Relay Output	16Amp DC+VE Supply voltage
Programmable Relay output 1	5Amp DC+VE Supply voltage
Programmable Relay output 2	5 Amp Non-contact-Normal open--Normal close output
Programmable Relay output 3	5 Amp P Non-contact Normal Open output
Programmable Relay output 4	5 Amp Non-contact normal open output
Excitation output	Max 1 Amp DC+VE supply voltage
Switch value input	Available if connecting with Battery -
Working condition	-25~65°C
Storage condition	-40~85°C
Protection Level	IP54:when waterproof rubber gasket is added between controller and its panel
Insulation Intensity	Object: among in input/output/power Quote standard: IEC688-1992 Test way: AC2.2 kV / 1min 3mA leakage current
Overall dimension	210mm*160mm*50mm
Panel cutout	186mm*142mm
Weight	0.9Kg

# APPLICATION CONNECTION DIGRAM

