

MANUAL	Manual	◆ Pressing this key will set the module into manual mode.	
AUTO	Auto	◆ Pressing this key will set the module into auto mode.	
· i	DC60D Records	◆ Pressing this key to check the alarm records under stop mode.	
TEST ONLOAD	DC62D Test	 ◆ Pressing this key to come into manual testing mode. ◆ Under testing mode, pressing MANUAL can start the genset and transfer to normal loading after running well, which is to test if the auto start is in normal status. 	
L. TEST/MUTE	LED Test/ Warning clear	◆ Test if all LED lights are ok, pressing this key to test if all lighted, all off when loosen it. ◆ Under warning, pressing this key can clear warning and controller will re-check warning. ◆ Under alarm, pressing this key can clear the buzzer call. ◆ Pressing this key in 3 seconds can clear the buzzer call, pressing it again in 3 seconds can recover the buzzer call.	
C/O	Gens/ Mains Close/On	♦ Under manual mode, pressing this key can transfer load to genset/mains.	
4	Left	◆ Under display mode, pressing this key to turn left page. ◆ Under edition mode, pressing this key to move the digit.	
D	Right	◆ Under display mode, pressing this key to turn right page. ◆ Under edition mode, pressing this key to move the digit.	
A	Up	◆Under display mode, parts of the page can move up. ◆Under edition mode, to move the digit or increase the numbers. ◆Under records mode, pressing this key to move the digit.	
*	Down	 ◆ Under display mode, parts of the page can move down. ◆ Under edition mode, to move the digit or decrease the numbers. ◆ Under records mode, pressing this key to move the digit. 	
•	OK UI Change	◆ Confirm the change under edition mode. ◆ Page exited under records checking mode. ◆ Black UI and white UI can be switched when Pressing. ◆ In standby state, press for 3 seconds to enter the parameter setting mode .	
+ STOP	Setting mode	◆ Pressing STOP and OK simultaneously to come into setting mode	
STOP	DC62D Alarm Records checking	◆ Pressing STOP and RIGHT to check the records and any buttons pressed to exit from the page.	

◆Alarm records checking

DC6XD controller can save 14 groups of alarm records which contains time, gens parameter, engine parameter and so on. How to check the alarm records:

1)Enter alarm record page:

a) DC60D: under stop mode, press to come into alarm records page;

b) DC62D: press and simultaneously to come into alarm records page;

2)Press to turn upper digit and press to turn lower digit in order to choose the record you need. Press

to confirm the record and come into history records checking page.

3)Press to turn lower records under records checking page. Press to turn upper records and press

to revert back to alarm history records page.

4)Exit from records page: In the history records page and checking page, press to exi

3. Parameter setting

♦ Enter the edition page

Please set the parameters according to below steps:

and simultaneously, then loose 1)In the stop mode, please so that you can come to password interface, the default password is "07623".

2)Press and add number 1, press to reduce number 1, press to turn the digit into right, press turn the digit into left, press once done. Then system comes into menu after confirmation of password setting.

The screen will display error if password is wrong. The correct password should be put after pressing any button.

3)Press to turn the digit into upper position, press to turn the digit into lower position, press into parameters setting page.

4)Press to shift up the parameters, press to shift down the parameters, press parameter changing page.

once done. If the parameters setting is in the valid setting range, then it can be to turn the digit into left, press saved, if not, it can not be saved.

to turn the digit into right and press

to save the parameters and exit from edition page.

7)Press to revert back to last class if in any setting position.

5)Press to add number 1, press to reduce number 1, press

Revert back to default: put password "97011" when coming into parameters setting, then all the parameters can be set as defaults.

Note: the data can not be saved if the user didn't press 🍑 Parameter setting

1)) Basic setting					
No	Parameter	Range (default)	Notes			
1	Language	0-English 1- 简体中文 2-繁体中文 3-español 4-русский	Language option.			
2	Gens poles	2/4/6/8 (4)	When the flywheel teeth is set as 0,the RPM will be resulted by frequency. Pole 2: 50Hz3000RPM.Pole 4: 50Hz1500RPM. Pole 6: 50Hz1000RPM.Pole 8: 50Hz750RPM			
3	Gens AC system	Disable 1 phase 2 wire 2 phase 3 wire 3 phase 3 wire 3 phase 4 wire	Gens phases: No gens parameters can be displayed if setting as disable, which is applied to water pump genset.			
4	CT rate	5-6000A/5A (500A / 5A)	Used for setting genset CT primary current, secondary rated current 5A.			
5	Rated frequency	40.0-80.0Hz (50.0Hz)	Setting generator rated frequency to choose the meter range and calculate the alarm value.			
6	Rated phase voltage	80-360V (230V)	Setting generator phase voltage to choose the meter range and calculate the alarm value.			
7	Rated phase current	5-6000A (500A)	Setting generator phase current to choose the meter range and calculate the alarm value.			
8	Rated total power	5-2000Kw (276Kw)	Set total power of generator to choose the meter range and calculate the average loading rate and alarm value.			
9	Rated battery voltage	8.0-36.0V (24.0V)	Choose the meter range and calculate the alarm value.			
10	Rated RPM	500-4500RPM (1500)	Choose the meter range and calculate the alarm value.			
11	Flywheel teeth	0-300 <i>(0)</i>	If the setting is 0, (RPM sensor Disabled), then RPM is resulted by Hz.			
12	Oil pressure sensor	1:VDO 0-10Bar 2:MEBAY-003B 3:SGH 4:SGD	Choose the usual oil pressure sensor, if the sensor users choose is not the 9 types, it can be User-defined.			

		5:SGX 6:CURTIS 7:DATCON 10Bar 8:VOLVO-EC 9:3015237 10:User-defined 11:GENCON 0-10BAR	
13	Coolant temperature sensor	1:VDO 40-120 2:MEBAY-001B 3:SGH 4:SGD 5:SGX 6:CURTIS 7:DATCON 8:VOLVO-EC 9:3015238 10:PT100 11:MEBAY-Mier 12:User-defined 13:GENCON 120°C	Choose the usual water temperature sensor, if the sensor users choose is not the 11 types, it can be User-defined.
14	Oil temperature sensor	1:VDO 40-120 2:MEBAY-001B 3:SGH 4:SGD 5:SGX 6:CURTIS 7:DATCON 8:VOLVO-EC 9:3015238 10:PT100 11:MEBAY-Mier 12:User-defined 13:GENCON 120°C	Choose the usual oil temperature sensor, if the sensor users choose is not the 11 types, it can be User-defined.
15	Cylinder temperature sensor	1:MEBAY-Mier 2:PT100 3:User-defined	If the sensor users choose is not the 2 types, it can be User-defined.
16	Genset box temperature sensor	1:MEBAY-Mier 2:PT100 3: User-defined	If the sensor users choose is not the 2 types, it can be User-defined.
17	Fuel level sensor	1: SGH 2: SGD 3: MEBAY 150 4: User-defined 5: ZP61-10 6: VDO ohm range10-180 7: VDO TUBE TYPE 90-0 8: US ohm range240-33 9: GM ohm range 0-90 10: GM ohm range 0-30 11: Ford(73-10)	If the sensor users choose is not the 3 types, it can be User-defined.
18	Action if RPM lost	Warning Alarm and stop	This fault can be checked only if there is gens frequency checked as one condition of crank successfully.
19	Action if low oil pressure	Warning Alarm and stop	If setting as warning, the programmable input should be set as Low oil pressure stop disabled and input is valid. When the oil pressure value is lower than the preset value or low oil pressure alarm input signal is valid, then controller only display warning but not stop.
20	Action if high water temperature	Warning Alarm and stop Alarm and stop after unloading	Alarm and stop: when the temperature is higher than preset value or high temperature signal is valid, then controller will alarm and stop after normal faults delay. If setting as warning:the programmable input should be set as
21	Action if high oil temperature	Warning Alarm and stop Alarm and stop after unloading	high temperature stop disabled and input is valid. When the temperature value is higher than the preset value or high temperature alarm input signal is valid, then controller only display warning but not stop.
22	Action if high cylinder temperature	Warning Alarm and stop Alarm and stop after unloading	If setting as alarm and stop after unloading:the programmable input should be set as high temperature stop and input is valid. When the temperature value is higher than the preset value or high temperature alarm input signal is valid, then controller shall start the unloading procession and stop with alarm.
_23	Action if high	Warning	Start the univading procession and stop with alarm.

	genset	Alarm and stop			
	box Temperature	Alarm and stop after			
		unloading			
	Action if oil	Disable			
24	pressure sensor	Warning	Action if oil pressure sensor disconnected.		
	disconnected	Alarm and stop			
	Action if water	Disable			
25	temperature sensor	Warning	Action if Water temperature sensor disconnected.		
	disconnected	Alarm and stop			
	Action if oil	Disable			
26	temperature sensor	Warning	Action if oil temperature sensor disconnected.		
	disconnected	Alarm and stop			
	Action if cylinder	Disable			
27	temperature sensor	Warning	Action if cylinder temperature sensor disconnected.		
	disconnected	Alarm and stop			
	Action if genset box	Disable			
28	temperature sensor	Warning	Action if genset box temperature sensor disconnected.		
	disconnected	Alarm and stop			
	Action if fuel Leve	Disable			
29	I sensor	Warning	Action if Fuel level sensor disconnected.		
	disconnected	Alarm and stop			
		°C/KPA			
		℃/BAR			
30	Pressure/Temperat	℃/PSI	Unit display.		
30	ure unit	F/KPA	Offit display.		
		F/BAR			
		F/PSI			

	2) Basic Setting 2				
NO	Parameter	Range(defaults)	Notes		
1	Primary Modes	STOP Manual Auto Auto save	The primary modes on power, easy for user operation. Note: auto record function can not record the mode with load.		
2	Manual crank times	1-30 (1 time)	Crank times under mode and test mode.		
3	Auto start crank times	1-30 (3 times)	Crank times under auto mode.		
4	Crank disconnet	RPM Hz Oil pressure(delay) D+ RPM/Frequency RPM/Oil Pressure RPM/ D+ Frequency/Oil Pressure Frequency / D+ Oil pressure/ D+ RPM/Frequency/Oil press./D+ Oil pressure/ D+/RPM D+/Frequency/RPM RPM/Freq./Oil Press./D+	1.If there is no oil pressure sensor, please dont choose the type. 2.If there is no oil pressure sensor (only with low oil pressure switch),RPM, voltage, the user can choose Charge D+ as the crank condition, please choose oil pressure+Charge D+ as conditions in order to keep the engine running safely. Oil pressure switch input is not the crank condition Please check if the running status, stop condition are according with crank conditions can be acceptable as crank condition. But all of them should be meet together to regard as stop condition.		
5	Frequency disconnect	0-200% (28%)	Rated frequency multiplying by this value is regarded as crank success condition. When the gens frequency is over the condition value, then system regards it as crank success.		
6	Oil pressure disconnect	0-400kpa (200kpa)	When the engine oil pressure is over the condition value, then system regards it as crank success, motor escaped.		
7	RPM disconnect	0-200% (24%)	Rated RPM multiplying by this value is regarded as crank success condition. When the RPM is over the condition values then system regards it as crank success, motor escaped.		
8	D+ disconnect	3.0-32.0V (8.0V)	When the engine D+ is over the condition value, then system regards it as crank success, motor escaped.		
9	OP pre-supply stop	50-600kpa <i>(200kpa)</i>	When the oil pressure is over the condition value, then pre-oil supply is stopped.		
10	RPM-up stop	0-200% (90%)	Rated RPM multiplying by this value is regarded as speed-up stop value. When the RPM is over this value, then the RPM-Up procession is stopped in time.		
11	Temperature-up stop	20-200℃ (68 ℃)	When the water temperature is over the preset value, then temperature-up procession is stopped in time.		
12	Voltage-up stop	0-200% (85%)	Rated voltage multiplying by this value is regarded as voltage- up stop value. When the voltage is over this value, then the voltage-Up procession is stopped in time.		

13	Fuel pump open	0-100% (25%)	When the fuel level is lower than preset value and remains 10S, fuel pump opened signal output		
14	Fuel pump close	0-100% <i>(80%)</i>	When the fuel level is higher than preset value and remains 1S, fuel pump closed signal output.		
15	Maintenance countdown	0-5000h <i>(800h)</i>	When it is set as 5000, then this function is disabled.		
16	Maintenance date	2000/01/01 -2099/12/31	When it is set as 2000/01/01, this function is disabled.		
17	Maintenance expire	Warning /Alarm and stop	The action after the primary maintenance expired.		
18	User password	00000-65535 (07623)	Change the password.		
19	Battery charging start	8.0-30.0 (25.6V)	When the battery voltage is lower than start value and		
20	Battery charging stop	10.0-36.0 (27.8V)	remains 10s under non-running status, then the relay is opened. When it is higher than the close value and remains 10s, relay is closed. Once coming into running mode, there is no output.		
21	E.T.S. hold times	1-10 (2)	The max E.T.S. hold on power shall be canceled once stop success under auto mode . the output interval time is " Fail to stop ".		

3) Delay time setting

NO	Parameter	Range(default)	Notes	
1	Start delay	0-6500.0s(5.0s)	The time during the genset starts after the mains failure or remote	
	•	, ,	signal is valid.	
2	Preheat time	0-6500.0s (0.0s)	The time needed to be preheat before the starter on power.	
3	Longest pre-oil supply	0-180.0s <i>(0.0s)</i>	Under pre-oil supply, if the oil pressure is higher than setting value	
	0 1 11 7	, ,	then pre-oil supply stopped.	
4	Cranking time	3.0-60.0s (8.0s)	The time when the starter is on power.	
5	Crank rest time	3.0-60.0s (10.0s)	If crank failure, the waiting time before the second test time.	
6	Oil pressure delay	0-20.0s (0.0s)	When the crank condition contains oil pressure, if the oil pressure is higher than the preset value and continue for few seconds, then it is regarded as crank success.	
7	Safety delay	1.0-60.0s (8.0s)	Low oil pressure, high water temperature, under speed, unde frequency, under voltage, charge failure are all invalid during this time except for emergency stop ,over speed, over freq.	
8	Start idle time	0-3600.0s (5.0s)	Idle running time when crank successfully.	
9	Longest RPM-up time	0-3600.0s (120.0s)	The longest speed-up time, during which time the system will exi- once speed increased successfully.	
10	Longest Tempup time	0-3600.0s(0.0s)	The longest warming-up time,during which time the system will exionce temperature increased successfully	
11	Longest Voltup time	0-3600.0s (120.0s)	The longest voltage-up time,during which time the system will exionce voltage increased successfully.	
12	Warming-up time	0-3600.0s(10.0s)	The time needed for loading.	
13	Back to Mains time	0-3600.0s (10.0s)	To avoid the switch actions if the mains unstable.If the remote star signal is invalid (DC6XD will check if the mains normal), genset wil not switch immediately, after the delay time, it will transfer to mains during the delay, if the remote start signal is valid, then genset wil come into rated running.	
14	Back to Gens time	0-3600.0s (5.0s)	There shall be loading delay from Mains to Gens if the remote star signal valid or Mains abnormal under Cooling time.	
15	Cooling time	0-3600.0s (30.0s)	After unloading, the time of cooling down by radiator before stop During the delay, if the remote start signal is valid, then genset will come into rated running.	
16	Stop idle time	0-3600.0s (5.0s)	Idle-speed running time.	
17	E.T.S. hold time	0-600.0s (10.0s)	Stop solenoid on power time.	
18	Fail to stop	5-180.0s (30.0s)	If the RPM is 0 during the stop failure time, then the stop failure time is no needed.	
19	Emergency delay	0-10.0s (1.5s)	Emergency and over frequency alarm delay.	
20	Normal alarm delay	2.0-20.0s(5.0s)	The alarm delay except for emergency stop and over frequency	
21	Normal warning delay	1.0-20.0s (2.0s)	The warning delay.	
22	AC Voltage abnormal delay	2.0-20.0s (10.0s)	Over / under voltage delay.	
23	Over current [inverse time]	0.1-36.0 (36.0)	This option will not take effect until the [28-Over phase current delay] is set to 0. The overcurrent delay is inverse time, and the formula is T=t/((IA/IT) -1)^2.	
24	Over power [inverse time]	0.1-36.0 (36.0)	This option will not take effect until the [29-Over total power delay] is set to 0. The over power delay is inverse time, and the formula is T=t/((IA/IT) -1)^2.	
25	Transfer switch delay	0-3600.0s (1.0s)	The time from Mains to Gens.	
26	Load / unload pulse width	1.0-10.0s (10.0s)	Mains and Gens loading and unloading pulse width, when it is 10s, i is regarded as continuous output.	
27	Choke close delay	0-200.0s(3.0s)	Choke close delay.	
	*			

	_		
28	Over phase current		When this parameter is set to 0, the over current delay is the inverse
28	delay		time; if not, the over current delay is the time set for this parameter.
20	29 Over total power delay		When this parameter is set to 0, the over power delay is the inverse
29			time; if not, the over current delay is the time set for this parameter.

4) Engine Alarm setting

	Parameter Parameter	Range (defaults)	Notes	
1	Over speed alarm	0-200% (114%)	Rated RPM multiplying by this value is regarded as over speed alarm value. When the RPM is higher than the alarm value and comes into over speed delay but still higher(emergency faults delay), then over speed alarms if the value is set as 200, then the over speed alarm is disabled.	
2	Under speed alarm	0-200% (80%)	Rated RPM multiplying by this value is regarded as under speed alarm value. When the RPM is lower than the alarm value and comes into under speed delay but still lower (normal faults delay), then under speed alarms. if the value is set as 0, then the under speed alarm is disabled.	
3	Low oil pressure alarm	0-999kpa (103kpa)	When the oil pressure is lower than the alarm value and comes into low oil pressure delay but still lower (normal faults delay), then low oil pressure alarms. If the value is set as 0, then the under speed alarm is disabled.	
4	High water temperature alarm	20-200℃ (98℃)	When the water temperature is higher than the alarm value and comes into high temperature delay but still higher (normal faults delay), then high temperature alarms. If the value is set as 200, then the high temperature alarm is disabled.	
5	High oil temperature alarm	20-200℃ (100℃)	When the temperature is higher than the alarm value and comes into high temperature delay but still higher (normal faults delay), then high temperature alarms. If the value is set as 200, then the high temperature alarm is disabled.	
6	High cylinder temperature alarm	20-200℃ (150℃)	When the temperature is higher than the alarm value and comes into high temperature delay but still higher (normal faults delay), then high temperature alarms. if the value is set as 200, then the high temperature alarm is disabled.	
7	High genset box temperature alarm	20-200℃ (85℃)	When the temperature is higher than the alarm value and comes into high temperature delay but still higher (normal faults delay), then high temperature alarms. If the value is set as 200, then the high temperature alarm is disabled.	
8	Low fuel level warning	0-100% (20%)	When the fuel level is lower than the value and comes into low fuel leve warning delay but still lower (normal warning delay), then low fuel level warns If it is higher than the value then warning clears. If the value is set as 0, ther the low fuel level warning is disabled.	
9	Low fuel level alarm	0-100% (0%)	When the fuel level is lower than the alarm value and comes into low fuel leve delay but still lower (normal faults delay), then low fuel level alarms. if the value is set as 0, then the under speed alarm is disabled.	
10	Over battery voltage warning	0-200% (135%)	Rated battery voltage multiplying by this value is regarded as over battery voltage warning value. When the battery input is higher than the warning value and comes into over battery voltage delay but still higher (normal faults delay) then over battery voltage warns. if the value is set as 200, then the over battery voltage is disabled.	
11	Under battery voltage warning	0-200% (100%)	Rated battery voltage multiplying by this value is regarded as under battery voltage warn value. When the battery input is lower than the warning value and comes into under battery voltage delay but still lower (normal faults delay), then under battery voltage warns. if the value is set as 0, then the under battery voltage is disabled.	
12	Charger warning	1.0-30.0V (30.0V)	When the gap between D+ and B+ is over than this value, and there is charging failure but still high(normal warning delay), then charge failure warns. Once the gap is lower than the value, warns clear. If the value is set as 300, then the charge failure is disabled.	

5) Generator alarm parameters

NO	Parameter	Range(defaults)	Notes
1	Over freq alarm	0-200% (114%)	Rated frequency multiplying by this value is regarded as under over frequency alarm value. When the Freq is higher than the value and comes into over freq delay but still higher (emergency faults delay), then over frequency alarms. If the value is set as 200, then the alarm is disabled.
2	Under freq alarm	0-200% (80%)	Rated frequency multiplying by this value is regarded as under frequency alarm value. When the Freq is lower than the value and comes into under freq delay but still lower (normal faults delay), ther under frequency alarms. If the value is set as 0, then the alarm is disabled.
3	Over voltage warning	0-200% (120%)	Rated voltage multiplying by this value is regarded as over voltage alarm value. When the voltage is higher than the value and comes into over voltage delay but still higher (normal faults delay), then over voltage alarms.
4	Under voltage alarm	0-200% (80%)	Rated voltage multiplying by this value is regarded as under voltage alarm value. When the voltage is lower than the value and comes into

			under voltage delay but still lower (normal faults delay), then under
			voltage alarms.If the value is set as 0, then the alarm is disabled.
			Rated current multiplying by this value is regarded as over current
5	Phase current	0-200% <i>(100%)</i>	alarm value. When the current is higher than the value and comes into
5	over-load alarm	0-20070(10070)	over current delay but still higher (over current faults delay), then over
			current alarms. If the value is set as 200, then the alarm is disabled.
			It is valid for 2P3W or 3P4W.When the non-balance current ratio is
6	Non-balance current	10-100% <i>(100%)</i>	higher than the value and comes into delay but still higher(normal
"	ratio warning	10-100 /0(100 /0)	warn delay), then non-balance current ratio warns. If the value is set as
	·		100, then the warning is disabled.
			Rated power multiplying by this value is regarded as over power alarm
_	Over total power	0-200%(100%)	value. When the loading power is higher than the value and comes into
′	alarm	0-200 /0(100 /0)	delay but still higher (power faults delay), then over power alarmslt
			the value is set as 200, then the alarm is disabled.
	Output/immut acttion		

6) Ou	ıtput	/inpui	t setting

6)	Output/input setting	<u>'</u>		<u> </u>
NO	Parmeters	Range(defaults)	Not	es
1	Draggamanahla autout 1	0-50	0.	Disable.
1	Programmable output 1	(18. E.S.T. hold)	1. 1	Public warning output: when there is any warning output.
		0-50	2.	Public alarm output: when there is any alarm output, alarm
2	Programmable output 2	(11.ldle speed		locks till revert back.
		control)	3.	Audio alarm: when there is any alarm output, the Audio
	D	0-50	1	controls.
3	Programmable output 3	(15.Gens load)	4.	Shades control: there is output once genset starts and
4	Programmable output 4	0-50	1 :	stop till stable.
	"	DC60D:	5.	Preheat mode 1: preheat before start.
		(2.Public alarm	6.	Choke control: choke will be started after crank success
		output)	;	and off after delay.
		DC62D:	7. 1	Pre-oil supply control: Under pre-oil supply,if the oil
		(24. Mains load)	l i	pressure is higher than setting value or pre-oil supply time
		(=		ends, then pre-oil supply stopped.
			8.	Fuel output: output once gens starts and off till stable.
			9. (Crank output: output once cranking, no output in other
			1	mode.
			10.	Genset running: output under running,off once RPM is
				lower than cranking RPM. The crank success condition can
				be set.
			11.1	Idle speed control 1: used for speed controller, there is
				output under idle but no output under high speed.
			12.	Speed-up control: The output is valid after idle delay is
				completed, and the output is closed after high-speed heat
				dissipation.
			13.1	High speed control: The output is valid after idle delay is
				completed, and the output is closed after high-speed heat
				dissipation.
			14.1	Excitation output: there is output during cranking
				procession and there is 2s output if there is no frequency
				under high speed status.
			15.	Gens load: continuous or pulse type according to time
				setting.
			16.	Gens unload: continuous or pulse type according to time
			,	setting.
			17.3	Speed-down control: the output time is shutdown idle
				delay during shutdown idle or shutdown on power
				procession.
			18.	E.S.T. hold: shutdown output, it is used for gens with stop
				solenoid. when the setting value of shutdown delay is over,
				then it is off.
				System in stop: there is output under stop mode.
	1		20.	System in manual: there is output under manual mode.
	1			System in auto: there is output under auto mode.
				Fuel pump output: there is output if the oil capacity is
	1			lower than start condition for 10s and shutdown if it is higher
	1			than the shutdown condition for 1s.
	1			Battery charging control: there is output if the voltage is
				lower than the preset value under standby status and
				shutdown after start and in running status.
				Mains load: continuous or pulse type according to time
				setting. Only for DC62D.
				Mains unload: continuous or pulse type according to time
	1			setting. Only for DC62D.
			26.	Idle speed control 2: used for speed controller, there is

			output under idle but no output under high speed.
		0-40 (2.High water	Output under idle but no output under night speed. Disable.
6	Configurable input 1	temperature alarm)	Low oil pressure alarm switch.
_	0	0-40(1.Low oil	2. High water temperature alarm switch.
7	Configurable input 2	pressure switch)	3. High oil temperature alarm switch.
8	Configurable input 3	0-40(27.Remote start)	4. High cylinder temperature alarm switch.
9	Configurable input 4	0-40(8.Low Fuel level	5. High genset box temperature alarm switch.
		warning input)	Low water level alarm switch. Low water level alarm switch.
10	Configurable input 5	0-40(6.Low water	8. Low fuel level warning input.
		level alarm input)	9. Low fuel level alarm input.
			10. Charging failure warning: output when charging failure.
			11. Low oil pressure shutdown disabled: valid if there is
			signal input.
			12. High water temperature shutdown disabled: valid if there
			is signal input.
			13. High oil temperature shutdown disabled: valid if there is signal input.
			14. High cylinder temperature shutdown disabled: valid if
			there is signal input
			15. High genset box temperature shutdown disabled: valid
			if there is signal input.
			16. External instant warning input.
			17. External instant alarm input.
			18. Gens un/loading input: connect to the gens loading
			switchs auxiliary point.
			19. Mains un/loading input: connect to auxiliary point of mains
			loading switch.(Only for DC62D). 20. Shades status input.
			21. Auto start disabled: gens will not start if there is signal
			input whatever mains normal or not.
			22. Auto stop disabled: gens will not stop if there is signal
			input whatever mains normal or not.
			23. Stop by radiator if high temperature: The controller will
			shutdown the gens after high speed cooling down delay
			when temperature is too high if this signal is valid and gens under normal running . the controller will shutdown the gens
			directly if the signal is not valid.
			24. Stop by radiator if high oil temperature: The controller will
			shutdown the gens after high speed cooling down delay
			when temperature is too high if this signal is valid and gens
			under normal running . the controller will shutdown the gens
			directly if the signal is not valid.
			25. Stop by radiator if high cylinder temperature: The
			controller will shutdown the gens after high speed cooling
			down delay when temperature is too high if this signal is valid and gens under normal running . the controller will
			shutdown the gens directly if the signal is not valid.
			26. Stop by radiator if high genset box temperature: The
			controller will shutdown the gens after high speed cooling
1			down delay when temperature is too high if this signal is
1			valid and gens under normal running . the controller will
1			shutdown the gens directly if the signal is not valid.
1			27. Remote start(with load): the gens comes into start procession if this signal is valid and under auto mode.
			28. Soundproof alarm: audio alarm output is disabled if there
			is signal output.
1			29. Front face button disabled: any button except for page
1			button is disabled if there is signal output.
1			30. Meter mode: all output are disabled, alarm and warns are
1			invalid. any button except for page button is disabled.
			31. Remote control mode: any button except for page button is disabled if the input is valid, LCD will display remote
			mode.remote control module can start/stop and monitor
			parameters through front face buttons.
44	D	0-6 (2.Water	0. Disable.
11	Programmable sensor 1	temperature sensor)	1. Oil pressure.
		0-6	2. Water temperature.
12	Programmable sensor 2		3. Oil temperature.
		sensor)	4. Cylinder temperature.
13	Programmable sensor 3	0-6	5. Genset box temperature.

(0.Disable) 6. Fuel level.

Note: every sensor input can be set as same function.(oil pressure, fuel level warns and alarm will be judged according to the lowest value. Water temperature, oil temperature, cylinder temperature, genset box temperature warns and alarm will be judged by the highest value. Either of the inputs for alarm opened.)

7) Working plan and maintenance setting

NO	Parameter	Range <i>(defaults)</i>	Notes
1	Working plan format	Disable Every month Every week	This mode must be under auto mode. Working plan is disabled once setting as disable. The working plan will be executed according the chosen date when setting as every month. The working plan will be executed according the chosen date when setting as every week.
2	Maintenance date per month	From 1 st to 31 st Default: the first day	The date chosen for every month.
3	Maintenance date per week	Monday to Sunday Default: Sunday	The date chosen for every week.
4	Maintenance with load or not	Disabled/with load	To choose if the genset starts with load or not.
5	Maintenance start time	00:00-23:59 <i>(00:00)</i>	Maintenance start time setting.
6	Maintenance running time	1-120m (5m)	Maintenance running time setting.

8)	Mains protection		
No	Parameter	Range(defaults)	Notes
1	Phase	Disable 1 Phase 2 Wire 2 Phase 3 Wire 3 Phase 3 Wire 3 Phase 4 Wire	Choose the input, there is no display if setting as disable.
2	Mains under volt	55-330V (184V)	When the mains voltage is lower than the "low voltage crank
3	Revert under volt	55-330V (207V)	threshold" and comes into mains low voltage delay(normal failure delay) but still lower, then mains becomes invalid. If the voltage become higher than "low voltage revert threshold" during norma failure delay time, then it will not alarm.
4	Mains over volt	55-330V (276V)	When the mains voltage is higher than the" high voltage crank
5	Revert over volt	55-330V (253V)	threshold" and comes into mains high voltage delay(normal failure delay) but still higher, then mains becomes invalid. If the voltage become lower than "low voltage revert threshold" during norma failure delay time, then it will not alarm.
6	Mains normal delay	0.0-3600.0S (10.0S)	The time from abnormal to normal, which is used for ATS transfer.
7	Mains abnormal delay	0.0-3600.0S(5.0S)	The time from abnormal to normal, which is used for ATS transfer.

9) LCD setting

No	Parameter	Range(defaults)	Notes
1	Start screen display	0-20.0s (5.0s)	Start screen display time,0: No-display.
2	Lightness of LCD	20-100% (50%)	Lightness adjustment.
3	LCD comparison	20-100% <i>(100%)</i>	LCD comparison adjustment.
4	Back lightness	20-100% <i>(80%)</i>	Back lightness adjustment.
5	Saving mode	5.0-200.0s(200.0s)	LCD light will be closed automatically without any button pressed after delay.If setting as 200.0s, back light always lighted.
6	Homing display	5.0-600.0s (60.0s)	The time when the page reverts back to the home page .lf setting as 600.0s:disabled.
7	LOGO delay display under standby	5.0-6000.0 (6000.0s)	Start screen will be opened without any button pressed after delay.If setting as 6000.0s: disabled.

10) USB/RS485 PORT

No	Parameter	Range (default)	Notes
1	Controller adress	1-255 (16)	The IP built by controller and PC.
2	485 baud rate	0-4800 1-9600 2-19200 3-38400 4-57600 5-115200	RS485 communication baud rate selection.
3	485 CRC setting	0-CRC L_H	Sequence selection of RS485 communication protocol CRC;

11) Working plan

No	Parameter	Range(default)	Notes
1	, ,,	Enable 1:remote start	Working plan must be under auto mode. During the working time, the genset start if the conditions reached and shall stop if the conditions not reached.

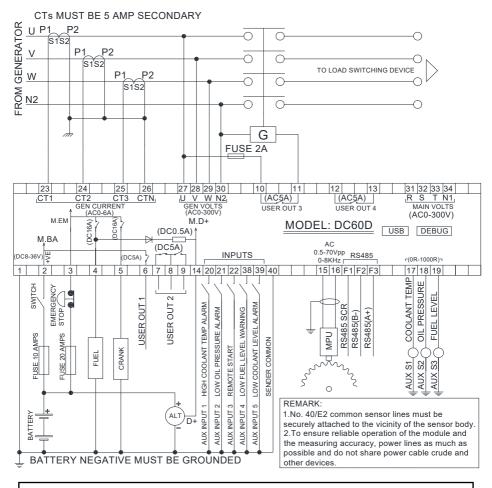
Γ			Enable 3:the above 1 or 2	The genset shall not start when out of the working time wheather the
			Enable 4:running always	conditions reached or not.
Γ	2	Start time	00:00-23:59	The start time allowed.
Γ	3	End time	00:00-23:59	The end time allowed(the next day is valid)
Ī	4	Dates	1-31	Multiple choices according to the reality. The longest running time is 24 hours

12) Data/time setting

Ν	Ю	Parameter	Range(defaults)	Notes
	1	Date/Time	2016/01/01-2099/12/31	Permanent calendar inside, please correct the time timely.
	2	Current time	00:00:00-23:59:59	Permanent calendar inside, please correct the time timely.

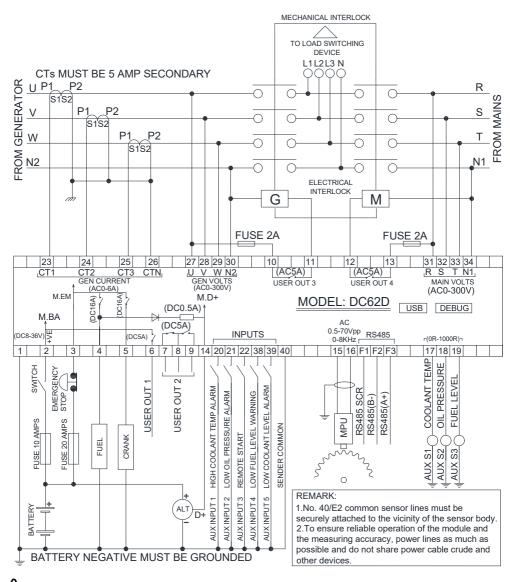
13	13) Self-define curve				
NO	Parameter	Notes			
1	Self-define oil pressure curve	Sensor curve can be User-defined by panel buttons,			
2	Self-define water temperature curve	resistance and according value should be input,MAX 15			
3	Self-define oil temperature curve	groups ,MIN 2 groups.			
4	Self-define cylinder temperature curve	Rule: resistance should be input from small to large.			
5	Self-define genset box temperature curve	- Kule. resistance should be input from small to large.			
6	Self-define fuel level curve				
4. Tvi	Typical diagram				

◆ DC60D/DC60DR 3 phase 4 wire diagram



DIMENSIONS 210×160×50mm(8.27" ×6.3" ×1.97")

PANEL CUTOUT 186×142mm(7.32"×5.59")





- 1.Please don't move battery during running status or it may cause the controller broken.
- 2.The CT public terminal ICOM should connect to public ground, on the mean time, please don't connect to Line Nero, or the controller may be burnt.

Warning: the secondary CT can not be opened under current loading, or the high voltage may cause damage and safety problem for workers.

∠!\Notes

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