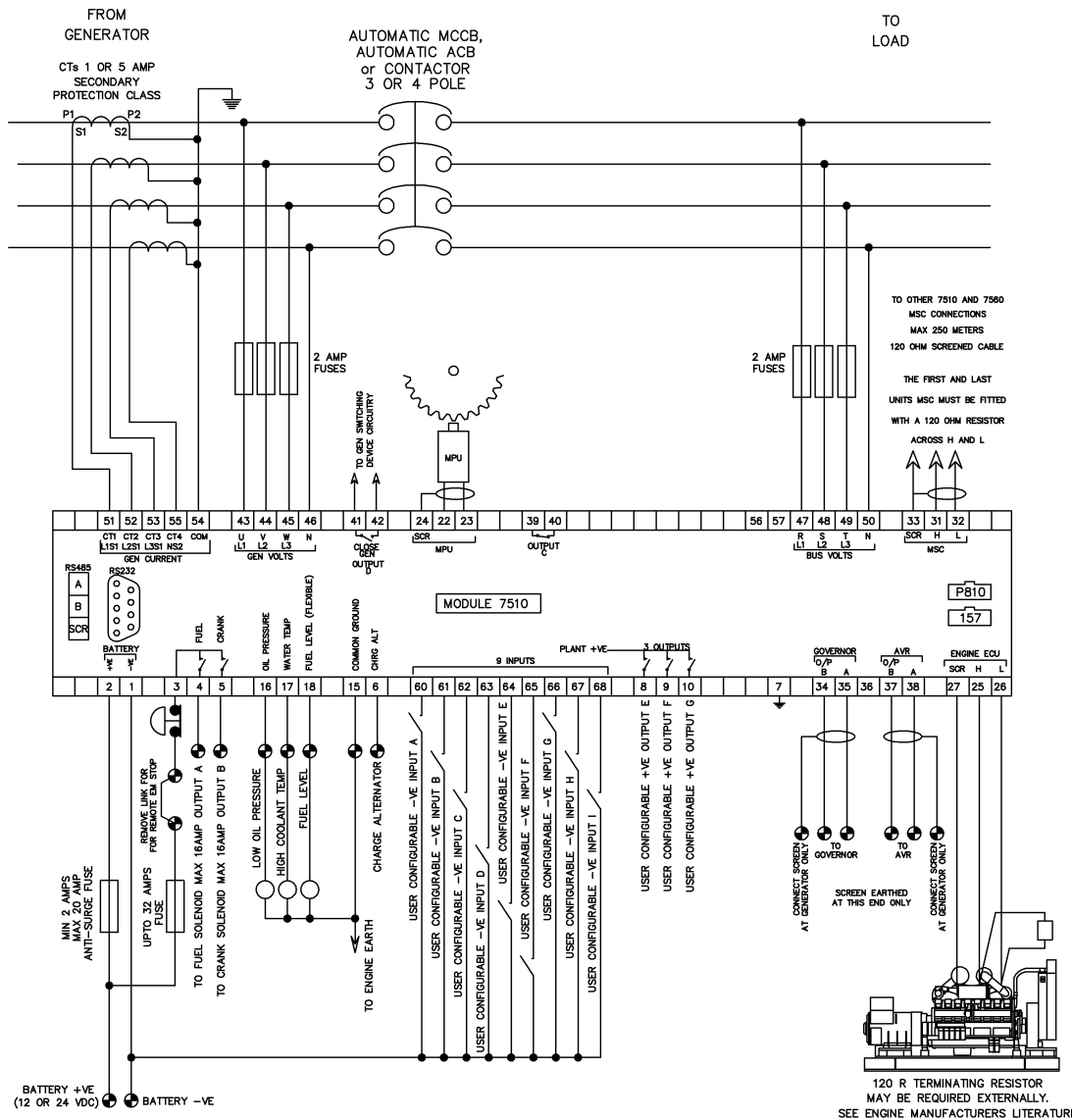


TYPICAL WIRING DIAGRAM



ACCESSING THE FRONT PANEL CONFIGURATION EDITOR.

- Ensure the engine is at rest and the module is in STOP mode by pressing the Stop/Reset button.
- Press the Stop/Reset and Info buttons simultaneously.
- If a module security PIN has been set, the PIN number request is then shown :
- Press (up) or (down) to adjust it to the correct value.
- Press (right) when the first digit is correctly entered. The digit you have just entered will now show '#' for security.
- Repeat this process for the other digits of the PIN number. You can press (left) if you need to move back to adjust one of the previous digits.
- When is pressed after editing the final PIN digit, the PIN is checked for validity. If the number is not correct, you must re-enter the PIN.
- If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed :

EDITING A PARAMETER

- Enter the editor as described above.
- Press the left or right buttons to cycle to the section you wish to view/change.
- To edit the parameter, press to enter edit mode. The parameter begins to flash to indicate that you are editing the value.
- Press the up or down buttons to change the parameter to the required value.
- Press to save the value. The parameter ceases flashing to indicate that it has been saved.
- To exit the editor at any time, press and hold the button.

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▲ **NOTE: When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.**

▲ **NOTE: The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.**

▲ **NOTE: More comprehensive module configuration is possible using the 75xx series PC configuration software. Please contact us for further details**

▲ **NOTE: The contents of the tables overleaf may differ depending on the actual module configuration.**

## ADJUSTABLE PARAMETERS

Front Panel Configuration Editor (Factory default settings are shown in bold italicised text)


Section	Parameter as shown on display	Values	
Input settings	Oil Pressure Pre Alarm	0bar - 4bar (1.17bar)	
	Oil Pressure Shutdown	0bar - 4bar ( <b>1.03bar</b> )	
	High Coolant Temp Pre Alarm	80°C - 140°C ( <b>115°C</b> )	
Timers	High Coolant Temp Shutdown	80°C - 140°C ( <b>120°C</b> )	
	Gen Transient Delay	0-10s ( <b>0s</b> )	
	Start Delay	0 - 60m ( <b>5s</b> )	
	Pre Heat Time	0 - 60m ( <b>0s</b> )	
	Crank Time	0 - 60s ( <b>10s</b> )	
	Crank Rest Time	0 - 60s ( <b>10s</b> )	
	Safety On Delay	0 - 30s ( <b>10s</b> )	
	Over speed Overshoot Delay	0 - 10s ( <b>0s</b> )	
	Warm Up Time	0 - 60m ( <b>0s</b> )	
	Return Delay	0 - 60m ( <b>30s</b> )	
	Cooling Run Time	0 - 60m ( <b>1m</b> )	
	Fail To Stop Delay	0 - 30s ( <b>30s</b> )	
	Low Battery Delay	0- 10m ( <b>1m</b> )	
	High Battery Delay	0-10m ( <b>1m</b> )	
	Gen Reverse Power Delay	0- 30s ( <b>2s</b> )	
Generator	Generator Under voltage Shutdown	50V-360V ph-N ( <b>184V</b> )	
	Generator Under voltage Pre Alarm	50V-360V ph-N ( <b>196V</b> )	
	Generator Nominal Voltage	52V-330V( <b>230V</b> )	
	Generator Over Voltage Pre Alarm	50V-360V ph-N ( <b>265V</b> )	
	Generator over Voltage Shutdown	50V-360V ph-N ( <b>277V</b> )	
	Generator Under Frequency Shutdown	0Hz - 75Hz ( <b>40Hz</b> )	
	Generator Under Frequency Pre Alarm	0Hz - 75Hz ( <b>42Hz</b> )	
	Generator Nominal Frequency	0Hz - 74Hz ( <b>50Hz</b> )	
	Generator Over Frequency Pre Alarm	0Hz - 75Hz ( <b>55Hz</b> )	
	Generator Over Frequency Shutdown	0Hz - 75Hz ( <b>57Hz</b> )	
	Generator Over Current Trip	100% - 200% full load rating ( <b>100%</b> )	
	Generator Short Circuit Trip	50% - 300% full load rating ( <b>200%</b> )	
	Generator Reverse Power Trip	0% - 200% full load rating ( <b>35kW</b> )	
	Earth Fault Trip	1% - 100% full load rating ( <b>10%</b> )	
Engine	Engine Under speed Shutdown	0RPM - 6000RPM ( <b>disabled</b> )	
	Engine Under speed Pre Alarm	0RPM - 6000RPM ( <b>disabled</b> )	
	Engine Over speed Pre Alarm	0RPM - 6000RPM ( <b>disabled</b> )	
	Engine Over speed Shutdown	0RPM - 6000RPM ( <b>disabled</b> )	
	Over speed overshoot	0% - 10% ( <b>0%</b> )	
	Plant Battery Under Volt Alarm	0V - 40V ( <b>10V</b> )	
	Plant Battery Over volt Alarm	0V - 40V ( <b>30V</b> )	
	Charge Alternator Failure Alarm	0V - 40V ( <b>6V</b> )	
Display	Language	ENGLISH, OTHERS	
AC System	Alternative Frequency	Enable, <b>Disable</b>	
	Alternative voltage	Enable, <b>Disable</b>	
	AC System	<b>3 Phase 4 wire</b> 1 Phase 2 wire 3 phase 3 wire 2 phase 3 wire L1 & L2 3 phase 4 wire EDISON DELTA 2 phase 3 wire L1 & L3	
	Generator Full Load Current	0A - 8000A ( <b>500A</b> )	
Droop	Droop	Enable, <b>Disable</b>	
	Droop %	<b>0%</b> - 5%	Electronic engines only when Droop is enabled
Display	Contrast	<input type="checkbox"/>   <input type="checkbox"/>	
Clock	Date and Time	dd mmm yyyy hh:mm:ss	
Misc.	Run Priority	1-16 ( <b>1</b> )	
	Auto Scroll Time	0 - 10s ( <b>2.0s</b> )	
CT	Generator CT Primary Rating	0A - 8000A ( <b>600A</b> )	Power Cycle After Exit
	Generator CT Secondary Rating	1A, <b>5A</b>	Power Cycle After Exit

## ADJUSTABLE PARAMETERS (CONTINUED)







Front Panel Configuration Editor (Factory default settings are shown in bold italicised text)

Section	Parameter as shown on display	Values	
Power	Full kw Rating	0MW-20MW ( <b>245kW</b> )	Power Cycle After Exit
	Full kVAR Rating	0MVA-20MVA (258kVA)	Power Cycle After Exit
	Load Ramp Rate	0%-100% ( <b>3.0%</b> )	
	Load Level For More Sets	0%-100% ( <b>80%</b> )	
	Load Level For Less sets.	0%-100% ( <b>70%</b> )	
	Load Parallel Power	0%-100% ( <b>172kW</b> )	
	Load Power Factor	0%-100% ( <b>1.0pf OkVAr 0%</b> )	
	Ramp with P123 Present	Enable <b>Disable</b>	
	Reactive Load Ctl Mode	None, <b>VAR Share</b> , VAr Fixed Export	
	Insufficient Capacity Delay	0 - 30m ( <b>1s</b> )	
Insufficient Capacity Action	<b>None</b> , Shutdown, Electrical Trip, Latched Warning, Unlatched Warning		

## ACCESSING THE 'RUNNING' CONFIGURATION EDITOR

- The 'running' editor can be entered while the engine is running. All protections remain active if the engine is running while the running editor is entered.
- Press and hold the  button to enter the running editor.

## ADJUSTABLE PARAMETERS (Running editor)

- Enter the editor as described above.
- Press the left  or right  buttons to cycle to the section you wish to view/change.
- Press the up  or down  buttons to change the parameter to the required value.
- To save parameters scroll to 'save changes and exit' followed by the down  button
- To cancel changes scroll to 'Abandon changes and exit' followed by the down  button

## Running Editor

Section	Parameter as shown on display	Factory Settings
DISPLAY	Contrast	<input type="checkbox"/>   <input type="checkbox"/>
	Language	<b>English</b> Other
	Gen set run priority	1-16 ( <b>1</b> )
	Load power factor	0-100% ( <b>0</b> )
	Load parallel power	0-100% ( <b>50</b> )
	Enable commissioning screens	<b>Yes</b> , No
	Override starting alarms	<b>Yes</b> , No
	voltage adjust (manual mode only engine running breaker open)	0-100 % ( <b>0</b> )
	Frequency adjust (manual mode only engine running breaker open)	0-100 % ( <b>0</b> )
	Enable mains decoupling test mode (Off mode only)	<b>Yes-No</b>
	Abandon changes and exit	
	save changes and exit	

## DIMENSIONS

240.0mm x 181.1mm x 41.7mm (9.4" x 7.1" x 1.6")

## PANEL CUTOUT:

220mm x 160mm (8.7" x 6.3")