

Product Code: PSS2

Description: Powersaver Electronic Boost controller with programmable operation



General Information

Dimensions (mm)	87 x 87 x 35
Flush Mounting Back Box Depth (mm)	7.9 (Plate)
Finish	White
Display	LCD
Materials	ABS
Mounting	Surface and Flush Mounting
Warranty (Years)	3

Programming

Programming Schedule	24 Hour, 5/2 day & 7 day selectable
Available Operations	10 x ON/OFF Periods
Summer/Winter Time Change	Manual Time Change
Memory Reserve	Permanent
Programme Resolution (Mins)	10
Selectable Boost Durations	30 minutes, 1 hour, and 2 hours

Supply & Power

Supply Voltage (V AC)	220 - 240
Frequency (Hz)	50/60
Cable Size (mm ²)	0.5 - 2.5
IEC Protection Class	Class II

Environment

Ingress Protection	IP20
Operating Temperature (°C)	0 to +40
Temperature Rating	T35



Powersaver Cycle Selectable Timer

The latest ESP product manuals can be found on-line:



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1. Features:
The Powersaver Select is a simple to use, multi application time switch. Although primarily used for the control of water heating, the PSS2 can also be used for a multitude of applications including the control of panel heaters, towel rails or combi boilers.

- 24 hour, 5/2 day & 7 day electronic timer
- Up to 10 program operations per day
- 30 mins, 1 hour and 2 hour boost function
- BST and GMT time adjustable
- Fits directly onto a single gang pattress box

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2. Specifications:

- Contact Rating: 16A Resistive 240V a.c.
2A LED Lighting 240V a.c.
- Supply: AC220~240V 50/60 Hz
- Terminals: suitable for max. 2.5 mm² flexible and 4.0 mm² fixed cabling
- Dimension: 86*86*35mm
- Operation Temperature: 0°C~40°C
- Memory Reserve: Permanently reserve setting
- Display: LCD

Please Note : This is a Class 2 product



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3. Front View and Back View (Fig. 1 and Fig. 2)

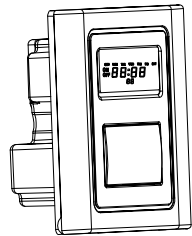


Fig.1 Front View

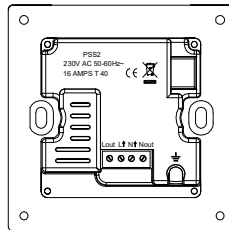


Fig.2 Back View

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4. Wiring Diagram

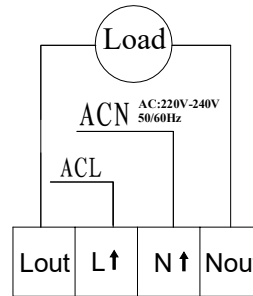


Fig.3 Wiring Diagram

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5. Installation Guide:

5.1 Flip open front plate from position A

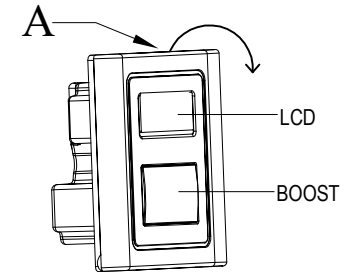


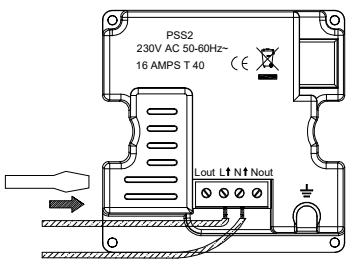
Fig.4

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5.2 Wire in accordance with the Wiring diagram and Terminal markings.

Input Voltage:

AC220V-240V 50/60Hz



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Installation must be by a suitably qualified person in accordance with the latest IEE wiring Regulations.

Provision must be made in the fixed wiring for a means of disconnection from the supply having a contact separation of at least 3mm on all poles. This can be provided by the consumer unit.

5.3 Fixing the mounting box on the wall and secure the unit to the mounting box with the 3.5mm screws provided.

a,b: Fixing Holes

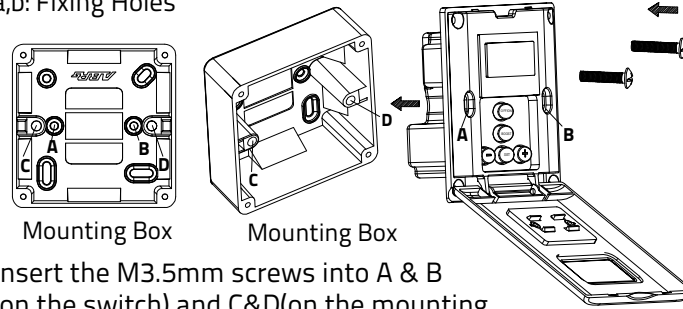
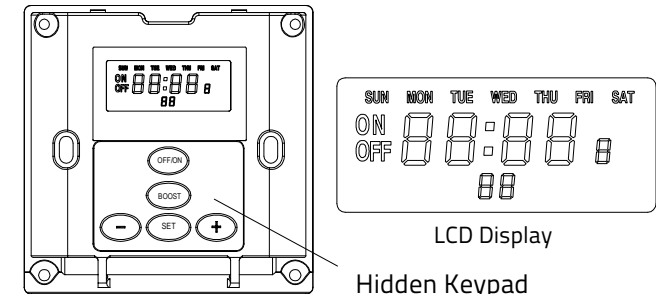


Fig.6

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6. Operation Guide:



LCD Display

Hidden Keypad

Flip down the front cover to access to the hidden keypad for setting.

Fig.7

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6.1 Press 'SET' to enter BST and GMT time setting, the initial time is BST, and the display will show E (see Fig. 8). Press '-' and/or '+' can switch the time from BST to GMT, and the display will show G (see Fig. 9).



Fig. 8



Fig. 9

NOTE: When return to normal display, user can long press the BOOST button to switch BST and/or GMT timer, and the programmed timer control will also be changed accordingly as well.

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6.4 After completing system time setting, press 'SET' button to enter timer setting:

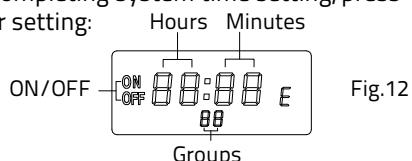


Fig. 12

Firstly, the LCD will display '--:00" and '01" 'ON', which means it has entered the timer on time setting for the first group. The default display '--: 00" means no timer control has been set.

Press 'SET' button again , the hours display will flash, press '+' it will scroll" --, 00,01...23", press '-' it will scroll" --,23...00"; Press 'SET' button again, the minutes display starts to flash, press '-' and/or '+' to adjust the minutes from 00 to 59.(Holding down '-' and/or '+' will adjust the data quickly).

Press 'SET' button again, the hours will flash, and show 01, OFF, which means it has entered the timer off time setting for the first group. Set the timer off timer according to above method of setting timer on time.

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NOTE : Using the Timer Control Override Function will not affect the timer control settings & the next time it will function as normal.

6.9 Off (Holiday) Function: Allows you to suspend timer control whilst still allowing the Boost function to be used using the OFF/ ON button.

Press once = Suspend timer control(LCD display will include OFF) Press twice = Cancel(LCD will return to normal display)

NOTE : This is NOT an override function for timer setting. BOOST button is still active.

6.10 Keypad Lock: Press - & + together for 5 seconds to lock settings = display briefly shows L, and then return to normal display.

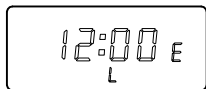
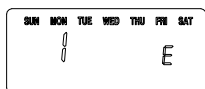


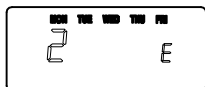
Fig.16

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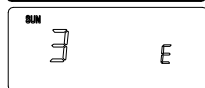
6.2 Press 'SET' again to enter program cycle setting, press '-' and/or '+' to select program from cycle 1 to cycle 3 as below:



Cycle 1(default): Daily (24 Hour) Cycle, all the days will flash simultaneously



Cycle 2: Weekly (5/2 Day) Cycle, the weekdays and weekend will take turns to flash.



Cycle 3: Cycle 3 24/7 (7 Day) Cycle, every day will take turns to flash.

If Cycle 3 is selected, for quick programming, users can press the ON/OFF to skip to a day and may also then press BOOST to copy the previous day into the current day.

Fig.10

NOTE: This programming cycle selection is only offered as part of the initial product setup or if a Product Reset has been carried out. Under normal conditions the programming cycle selection display is not shown.

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6.5 Please complete the timer setting for other groups according to the above method.

If it is not required to set 10 groups of timer, you can press and hold the 'SET' button to save and exit the initial setting directly.

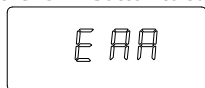


Fig.13

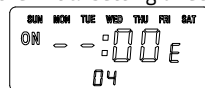


Fig.14

All groups timer must be in consecutive order, i.e. group 1 must be before group 2 & group 2 before group 3. If the wrong order is programmed, error messages will be displayed . Please press 'SET' again to reset the timer for this group. The already set timer for other groups will not be affected.

6.6 Cancel the timer control setting: After completing the initial/reset setting, if timer control for one of the group needs to be cancelled, please set the timer on time to '--:00". When the timer on time is cancelled, the timer off time is default to be cancelled as well.

NOTE : If an overnight program period is required. This should be programmed in two parts from midnight.

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NOTE : BOOST button is still active during keypad lock mode. Display shows L when other buttons pressed. Press - & + together for 5 seconds to unlock settings.

6.11 Product Reset (return to default settings):

Switch off power to unit. Hold in BOOST button whilst switching power back on.

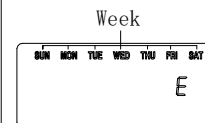
All LCD segments flashing displayed, Load On = Unit Reset Press
 BOOST = 1 displayed
 Press SET = 2 displayed
 Press - = 3 displayed
 Press + = 4 displayed

Press OFF/ON = software version displayed

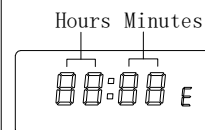
Press SET to reprogram = All LCD segments flashing displayed, Load Off.

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6.3 After completing program cycle setting, press 'SET' button to enter system time setting.



The Day of week display starts to flash, press "-" and or "+" to set the day of the week.



Press 'SET' button again, the hours display will flash, press '-' and/or '+' to adjust the hour from 00 to 23;

Press 'SET' button again, the minutes display starts to flash, press '-' and/or '+' to adjust the minutes from 00 to 59.

Fig.11

(Holding down '-' and/or '+' will adjust the data quickly).

Correct the system time: when at normal display interface, press and hold the SET button to enter the system time correction mode.

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6.7 Boost Function: As well as the programmable cycles, the PSS2 offers 3 options on period duration using the BOOST button:

Press once = 1/2 hour (The LCD will display 0:30)

Press twice = 1 hour (The LCD will display 1:00)

Press three times = 2 hour (The LCD will display 2:00)

Press four times = Cancel function (The LCD will show 0:00 and return to normal display)

Duration can be extended or cancelled by successive presses.

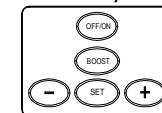


Fig.15

6.8 Timer Control Override Function: If during a timer On time you wish to turn off the loads, simply press the BOOST button once. Press BOOST button again, to enter Boost control.The loads will keep on until the BOOST period is over or the timer on time of next group is due.

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24/09/2019	A30-PSS2-01-1	Initial Issue

E&OE - Errors and omissions excepted. K19

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