iGROW

iGROW CONTROLLER

Description

SUNMASTER iGROW controller is a device using Powerline communication technology to control SUNMASTER digital ballasts without additional wiring. SUNMASTER iGROW controller is equipped with functions to gain maximum control over a grow lighting with simple approach for connection and settings.Functions include basic switch ON and OFF times, dimming timer, dusk and dawn simulation for continuous dimming. Its unique design contains no high voltage relays.

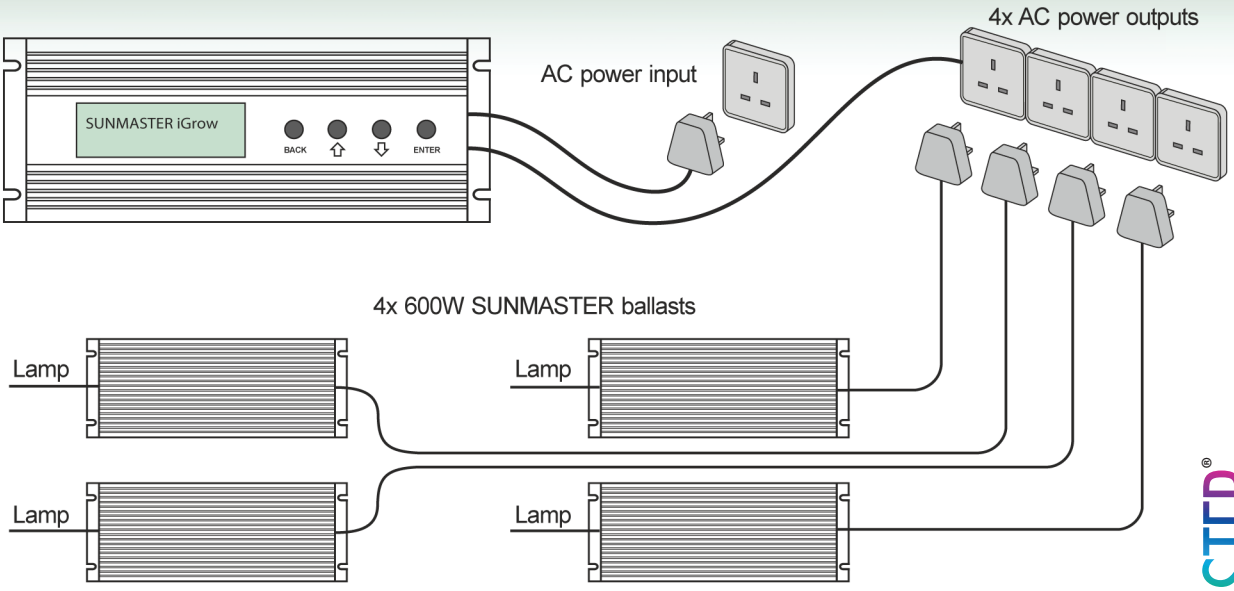
Technical data

Input voltage: AC 220-240V 50Hz
Input current: max. 13A
Output: max. 4x 600W SUNMASTER ballasts
Operating temperature: 0˚C - 50˚C
Ingress protection: IP30
Weight: 1.8 kg
Dimensions: 235mm x 103mm x 65mm
Extension cord for AC input: Cu, min. 3x2.5mm^2
Extension cord for ballast output: Cu, min. 3x1.5mm^2

Safety

When SUNMASTER iGROW controller is connected to mains electrical supply, it supplies high voltage 220V-240V on output at all times even when SUNMASTER ballasts are switched OFF. Always make sure that SUNMASTER iGROW controller is completely disconnected from mains electrical supply before installation. Settings will be saved. Avoid excessive contact with water and particles (dust, peat). Use caution when operating in extremely humid environment.

Connection diagram



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Setup

SUNMASTER iGROW controller's main setup is used to set the ON and OFF timer, light power of the ballast and dusk/dawn simulation. Dusk/dawn simulation gradually increases power at LIGHT ON time and decreases power at LIGHT OFF time.

1. Intro screen

```
SUNMASTER iGrow
VERSION 1.20
```

After the device has been turned ON, press ENTER for settings.

2. Local time setting

```
TIME:
01:00 PM
```

Set time by pressing ⇧ or ⇩ buttons, save by pressing ENTER

3. Lighting power ON time

```
LIGHT ON:
02:00 PM
```

Set time by pressing ⇧ or ⇩ buttons, save by pressing ENTER

4. Lighting power OFF time

```
LIGHT OFF:
03:00 PM
```

Set time by pressing ⇧ or ⇩ buttons, save by pressing ENTER

5. Lighting power level

```
LIGHT POWER:
660W [110%]
```

Set power by pressing ⇧ or ⇩ buttons, save by pressing ENTER

6. Dusk and dawn simulation

```
DUSK/DAWN
SIMULATION: YES
```

Change setting by pressing ⇧ or ⇩ buttons, save by pressing ENTER

7. Main screen

```
NOW 01:00PM   DDS
LIGHT ON 02:00PM
```

NOW - Current time, DDS - dusk/dawn simulation, shows when activated. Second row shows settings summary. To enter the menu (screens 2.-6.), press ENTER or BACK button. For advanced options menu, press ENTER and BACK buttons simultaneously.

8. Advanced options menu

```
2ND LIGHT POWER
TIME: --:-- --
```

```
2ND LIGHT POWER
---W [---%]
```

```
3RD LIGHT POWER
TIME: --:-- --
```

```
3RD LIGHT POWER
---W [---%]
```

Advanced options menu contains additional timing for enhanced lighting controls. To initiate settings, press ⇧ or ⇩ button. Values will be shown and can be set. Press ENTER to move through settings forward, BACK for moving backwards.
To cancel settings, press ⇧ and ⇩ buttons simultaneously.

9. Power override function

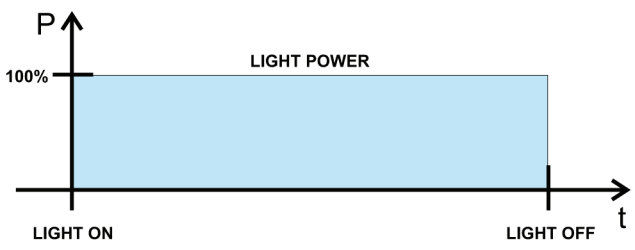
```
POWER OVERRIDE
660W  [110%]
```

Press ⇧ or ⇩ at the main screen to set the temporary power level change. Power will be overridden until the next timed event will occur (LIGHT ON, LIGHT OFF, 2ND LIGHT POWER or 3RD LIGHT POWER).

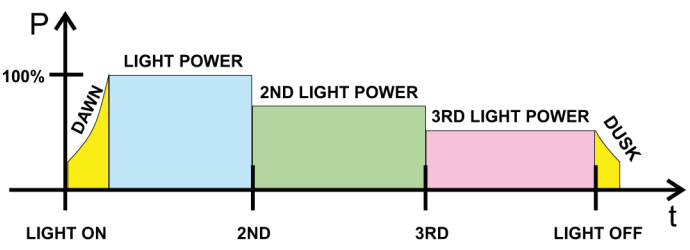
Additional information

SUNMASTER iGROW controller has a built-in function to ensure that the lamps are heated properly before dimming by turning the lamps to full power for 5 minutes.
To reset the iGROW settings, please hold ⇧ and ⇩ buttons simultaneously for 5 seconds. Please note that all settings will return to factory defaults (reset feature is valid from version v1.27).

Examples



Most basic setup for timed lighting can be achieved by setting LIGHT ON, LIGHT OFF and LIGHT POWER only, as shown in the characteristic above.



More advanced setup can be achieved by setting Dusk/dawn simulation, 2ND and 3RD LIGHT POWER, as shown in the characteristic above.