

# Bright Green Connect ECS-60-V Series



180 Vac  
to  
264 Vac

2yr  
WARRANTY

CONSTANT  
VOLTAGE



## Features

- Constant Voltage Design (C.V. Mode)
- AC Input Voltage 220~240V
- Protections: Overload/Over Voltage/Short circuit/Over Temperature
- IP67 Design
- 100% Full Load Burn-In Test
- Plastic Case
- Class II
- Safety Standards: EN61347-1, EN61347-2-13

## Technical Data

| Item   |                           | ECS-60-V012      | ECS-60-V024 |
|--------|---------------------------|------------------|-------------|
| Input  | Voltage Range             | 180~264Vac       |             |
|        | Frequency Range           | 50Hz             |             |
|        | Power Factor              | >0.9             |             |
|        | AC Current (max.)         | 0.5A             | 0.4A        |
|        | Start-Up Time             | <0.5S            |             |
|        | Inrush Current (ax.)      | 40A              |             |
|        | No Load Power Consumption | ≤1W              |             |
|        | Leakage Current           | <2.5mA (240Vac)  |             |
| Output | Voltage                   | 12V              | 24V         |
|        | Rated Power               | 60W              |             |
|        | Output Current            | 5A               | 2.5A        |
|        | Load Voltage Range        | ±5%              | ±5%         |
|        | Voltage Accuracy          | ±5% @ 220-240Vac |             |
|        | Voltage Regulation        | ≤3% @ Full Load  |             |
|        | Efficiency at Full Load   | ≥85%             |             |

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## Technical Data Cont'd

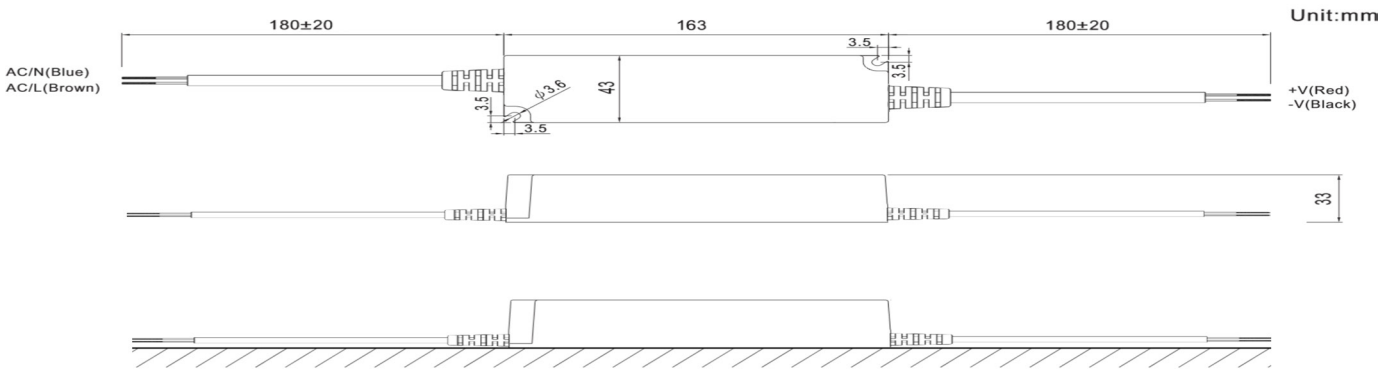
| Item                                                                                                                                |                         | ECS-60-V012                                                       | ECS-60-V024 |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------|-------------|
| Protection                                                                                                                          | Short Circuit           | Recovers automatically after fault condition is removed           |             |
|                                                                                                                                     | Overload                | 105-150%; recovers automatically after fault condition is removed |             |
|                                                                                                                                     | Over Voltage            | >16VDC                                                            | >32VDC      |
|                                                                                                                                     |                         | Recovers automatically after fault condition is removed           |             |
|                                                                                                                                     | Over Temperature        | Recovers automatically after fault condition is removed           |             |
| Isolation                                                                                                                           | Input-Output            | ≥10MΩ @ 500VDC                                                    |             |
| Enviroment/<br>Lifetime                                                                                                             | Working Temp & Humidity | -10~+40°C, 20~90%RH                                               |             |
|                                                                                                                                     | Storage Temp            | -20~+60°C                                                         |             |
|                                                                                                                                     | TC Rating               | 85°C                                                              |             |
|                                                                                                                                     | Lifetime                | >30,000h @ 40°C                                                   |             |
| Others                                                                                                                              | Dimension/Weight        | 163 x 43 x 33mm (L x W x H) 0.35Kg                                |             |
| Note<br>Unless specified, all of the test results are measured @ rated or maximum input and load within a 25°C ambient temperature. |                         |                                                                   |             |

## Safety/EMC Compliance

| Safety Standard | Description                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| EN 61347-1      | Lamp control gear Part 1: general and safety requirements                                                             |
| EN 61347-2-13   | Lamp control gear Part 2-13: particular requirement for d.c. or a.c. supplied electronic control gear for LED modules |
| EMI Standards   | Description                                                                                                           |
| EN 55015        | Conducted emission test & radiated emission test                                                                      |
| EN 61000-3-2    | Harmonic current emissions; Class C                                                                                   |
| EN 61000-3-3    | Voltage fluctuations & flicker                                                                                        |
| EMS Standards   | Description                                                                                                           |
| EN 61000-4-2    | Electrostatic discharge (ESD): 8 kV air discharge, 4 kV contact discharge                                             |
| EN 61000-4-3    | Radio frequency electromagnetic field susceptibility test (RS)                                                        |
| EN 61000-4-4    | Electrical fast transient (EFT)                                                                                       |
| EN 61000-4-5    | Surge immunity test                                                                                                   |
| EN 61000-4-6    | Conducted radio frequency disturbances test (CS)                                                                      |
| EN 61000-4-11   | Voltage dips                                                                                                          |
| EN 61547        | Electromagnetic immunity requirements applies to lighting equipment                                                   |

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## Dimensions



## Recommended Mounting Orientation

