

Bright Green Connect ECS-100-V Series



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-100-V012	ECS-100-V024
Input	Voltage Range	180~264Vac	
	Frequency Range	50Hz	
	Power Factor	>0.9	
	AC Current (max.)	0.7A	0.7A
	Start-Up Time	<0.5S	
	Inrush Current (max.)	60A	
	No Load Power Consumption	≤0.5W	
	Leakage Current	<0.5mA (240Vac)	
Output	Voltage	12VDC	24VDC
	Rated Power	100W	
	Output Current	8.3A	4.16A
	Load Voltage Range	±5%	±5%
	Voltage Accuracy	±5%	
	Voltage Regulation	≤3% @ Full Load	
	Efficiency at Full Load	≥85%	>90%

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Technical Data Cont'd

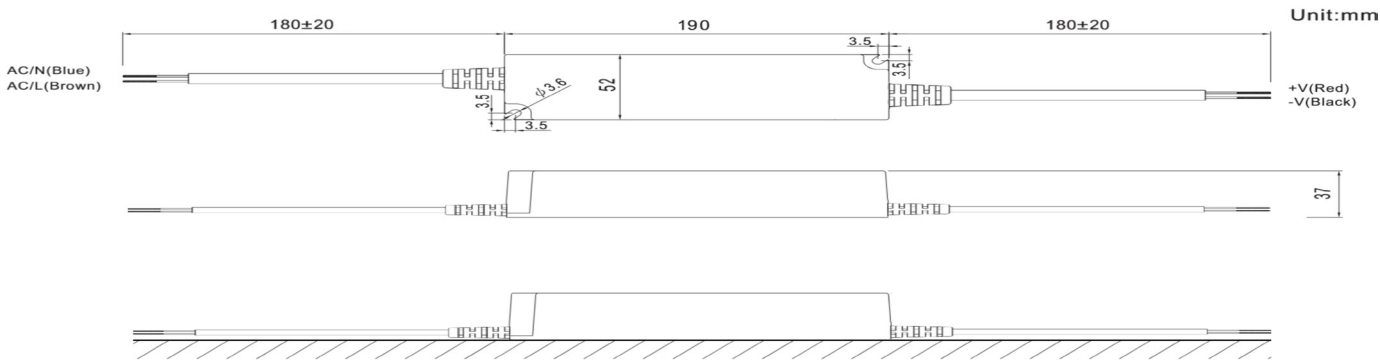
Item		ECS-100-V012	ECS-100-V024
Protection	Short Circuit	Recovers automatically after fault condition is removed	
	Overload	105-150%; recovers automatically after fault condition is removed	
	Over Voltage	>16VDC	>32VDC
		Recovers automatically after fault condition is removed	
	Over Temperature	Recovers automatically after fault condition is removed	
Isolation	Input-Output	≥10MΩ @ 500VDC	
Enviroment/ 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	190 x 52 x 37mm (L x W x H) 0.6Kg	
Note Unless specified, all of the test results are measured @ rated or maximum input and 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

