

Features

- Constant Voltage
- Input Voltage 100~240V AC
- Built in Active PFC Function
- OVP, OCP, OTP, SCP
- Working Temperature -25°C ~ +40°C
- Typical Efficiency 88%
- IP67 Waterproof
- Used in Floodlight and Outdoor Applications
- High PFC ≥0.5
- Metal Case



Ideal Power's 40VDC-xxxxXyyyy 15~100W LED Driver Series are certified to UKCA, CE, CB, cURus, IP67, SELV, Isolation, RoHS & Standards and comply with the relevant Efficiency Regulations. These are primarily used in LED Lighting Industries and customised solutions are available upon request.

Models

Model Number	Input Voltage (V ac)	Output Voltage (V dc)	Output Current (A)	PFC	Output Power (W)	Efficiency (%)	Dimensions (mm)
40VDC-12015A0283	100~240	12	1.25	>0.5	15	87.5	360x225x160
40VDC-24015A0283		24	0.625		15	87.5	
40VDC-12020A0283		12	1.67		20	87.5	
40VDC-24020A0283		24	0.83		20	87.5	
40VDC-12030D0690		12	2.5		30	87.5	363x225x160
40VDC-24030A0690		24	1.25		30	87.5	
40VDC-12040A0695		12	3.34		40	88.5	375x340x175
40VDC-24040A0695		24	1.67		40	88.5	
40VDC-12060A0696		12	5		60	89	325x260x270
40VDC-24060A0696		24	2.5		60	89	
40VDC-12100A0692		12	8.34		100	89.5	345x255x175
40VDC-24100A0692		24	4		96	89.5	

General Specifications

Input Cable	3 Core Mains lead (No plug)
Output Cable	2 core cable (No plug)
Number of Outputs	1
Operating Temperature	-25~+40°C
Mounting Style	Metal Enclosure
Cable Length	200mm ± 20mm
Cable Type	VDE H03VV-F, VDE H05VV-F

Input Specifications

Rated Input Voltage	100~240Vac (±10%)
Rated Frequency	47~63Hz
AC Current	0.38~2.45A/110Vac - 0.25~1.3A/230Vac
Inrush Current	Cold start: 45~60A/230Vac Model dependant
Leakage Current	15/20W <0.50mA - Other Models <0.75mA /240Vac

Output Specifications

Ripple & Noise	12V:120mVp-p; 24V: 240mVp-p
Current Range	0-1.25A ~ 0-4.17A Model Dependant
Hold-up Time	15ms (at full load) @230Vac
Set-up Time	2000ms, 50ms (at full load) 230Vac Model Dependant
Line Regulation	±0.5%~±1% Model Dependant
Load Regulation	±1% ~±2% Model Dependant

Protection Specifications

Overload	105%-135% of the rated output power, Hiccup mode, automatically recovers after fault conditions removed
Short Circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed
Over Voltage	Hiccup mode, recovers automatically after fault conditions removed
Over Temperature	Power off the output voltage, self-recovery when the temperature reduced

Mechanical Specifications

Housing Material	Aviation Class Metal Case
Overall Dimensions	Model Dependant

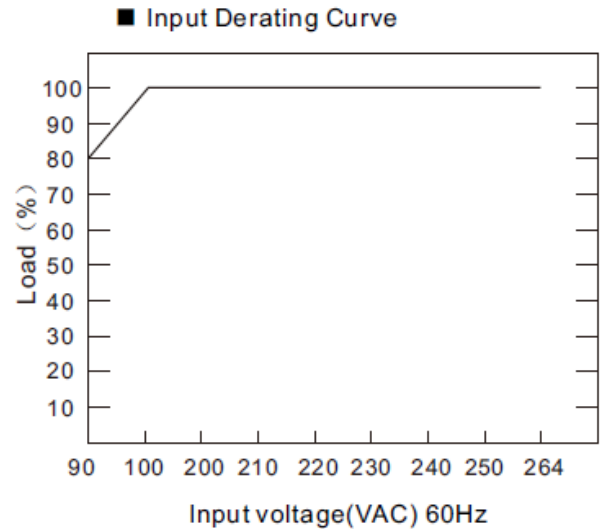
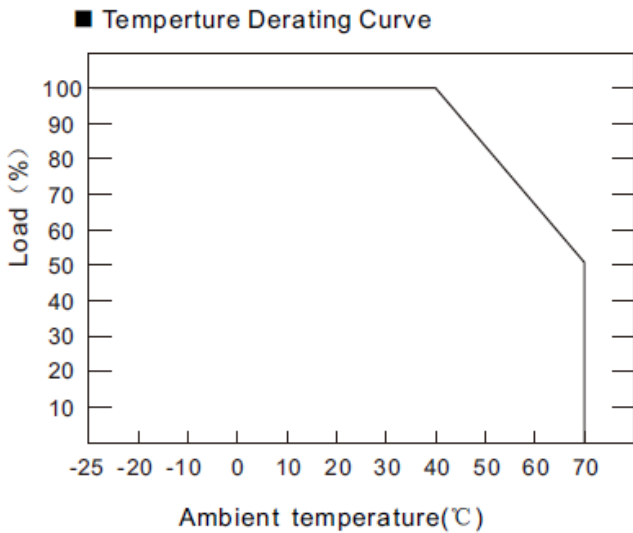
Environmental Considerations

Working Temperature	-25°C ~ +40 °C
Working Humidity:	10% ~ +95% - Non condensing
Storage Temperature	-25°C ~ +75°C
Relative Humidity	5% ~ 95%
Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes

Safety Approvals

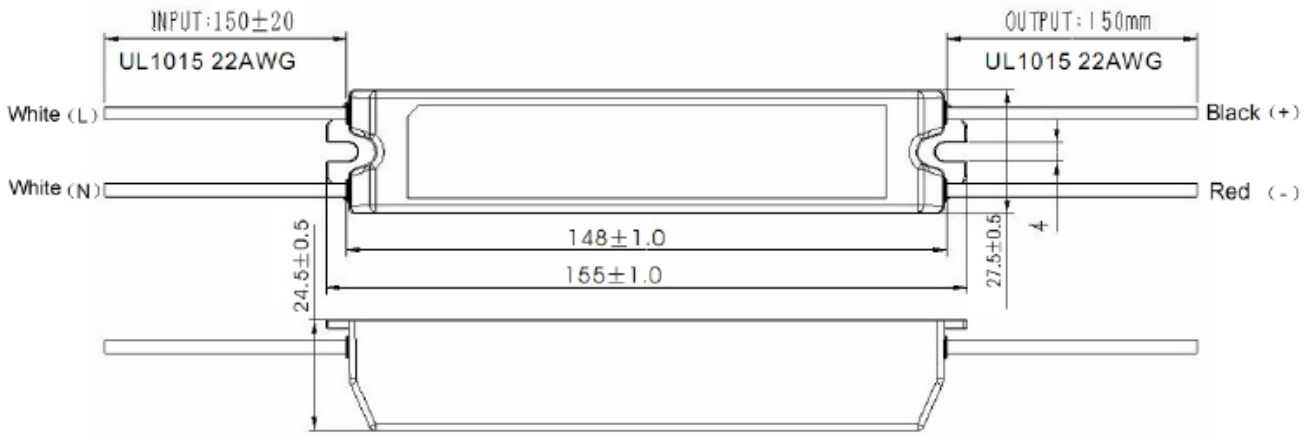
Compliance/Certifications	UKCA, CE, CB, cURus, IP67, SELV, Isolation, RoHS
Safety Standard	IEC 61347-1/IEC 61347-2-13
EMC Emission	Compliance to EN IEC 55015

Characteristic Curves

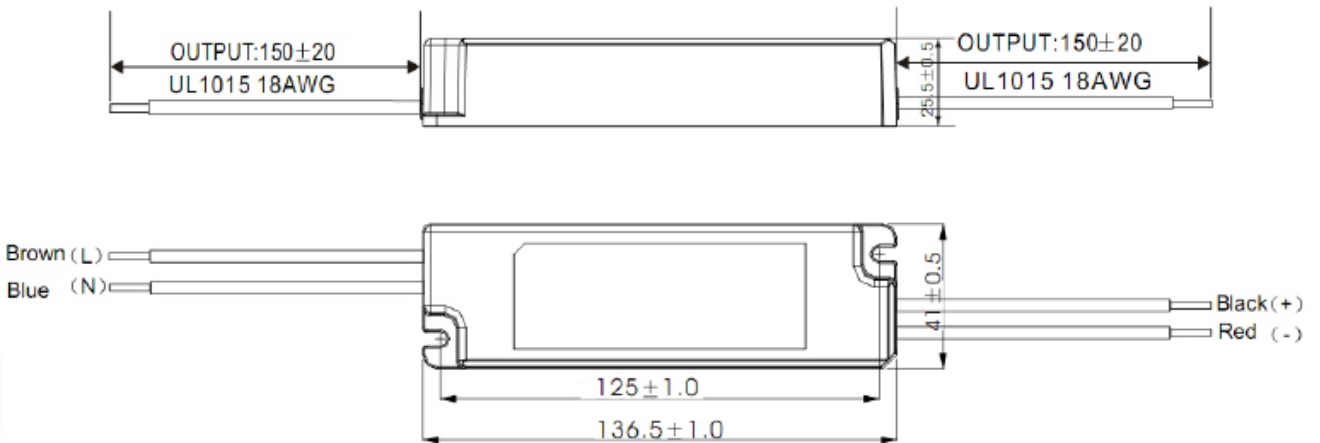


Mechanical Drawing

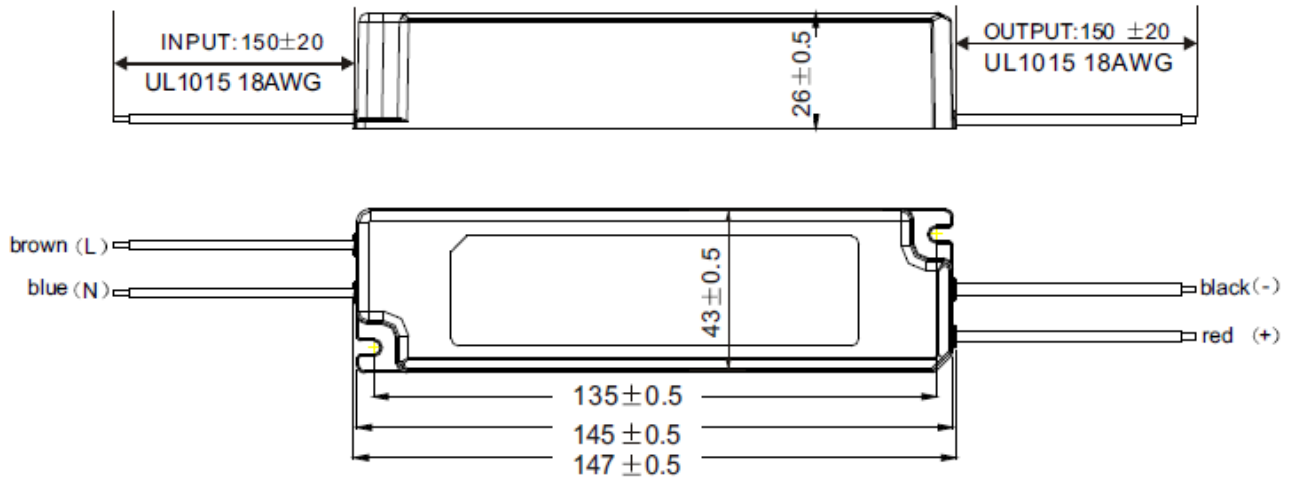
40VDC-12015A0283, 40VDC-24015A0283, 40VDC-12020A0283, 40VDC-24020A0283



40VDC-12030D0690, 40VDC-24030D0690

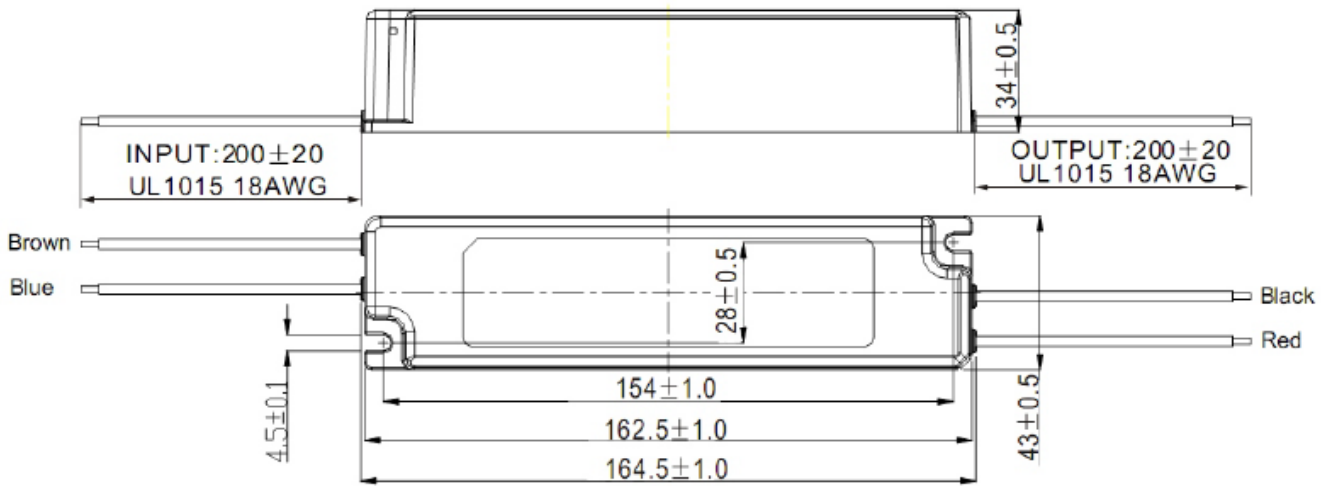


40VDC-12040A0695, 40VDC-24040A0695

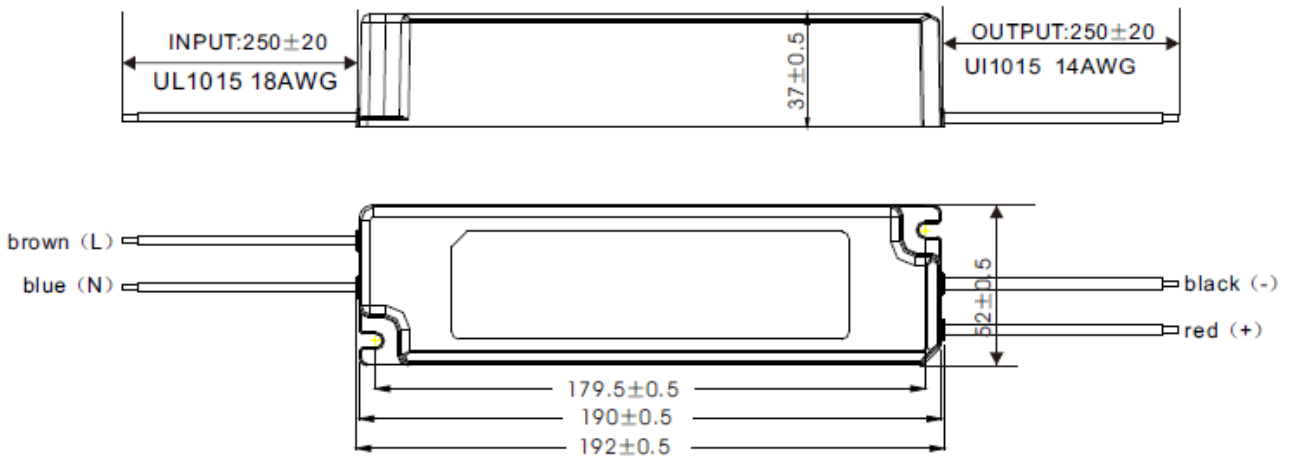


Mechanical Drawing

40VDC-12060A0696, 40VDC-24060A0696



40VDC-12100A0692, 40VDC-24100A0692



AC - DC