

# VIS-xxx-PWR

High Performance Power Supplies for VIS™ Illuminators



## Key Features

- Optimized for NuOptic VIS Illuminators
- Provides longer life and cooler operation of VIS illumination products than 24V AC
- Universal AC Input / Full Range (295V AC)
- Short circuit / over current / over voltage / over temperature protection
- IP66 rated for indoor and outdoor installations
- Class 2 power unit, free air convection cooling
- Compliance to worldwide safety regulations for lighting
- Built-in active power factor correction (PFC)
- High reliability with 5 years warranty

## Description

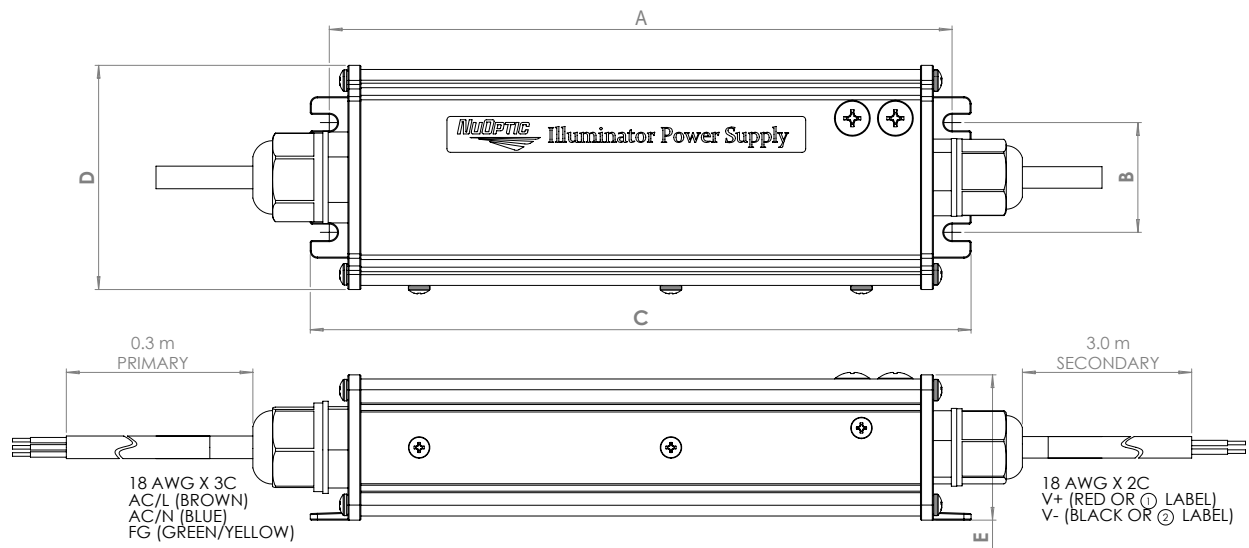
The VIS power supply series offered by NuOptic is an advanced state of the art power supply, specifically designed for the demands of high performance LED lighting products. Designed for a wide variety of industrial lighting applications, the VIS series power supplies offer high efficiency and excellent heat dissipation.

In compliance with lighting regulations throughout the world, the VIS Series power supplies can be used for street lighting, architectural lighting, decorative lighting, indoor lighting, stage and theater lighting, embedded lighting and LED sign boards. The robust IP66 rated design, with high protection against dust and moisture, makes the VIS power supply series suitable for a wide variety of indoor or outdoor installation of LED related applications.

## Technical Specification

	VIS-060-PWR / VIS-100-PWR	VIS-185-PWR / VIS-240-PWR
<b>AC Input Voltage Range</b>	90 - 295 VAC ; 127 - 417 V DC	
<b>DC Output Voltage</b>	36 Volts, 0 - 1.7A (VIS-060) 36 Volts, 0 - 2.65A (VIS-100)	36 Volts, 0 - 5.2A (VIS-185) 36 Volts, 0 - 6.7A (VIS-240)
<b>AC Inrush Current (Max)</b>	Cold Start, 230VAC 45A (VIS-060) Cold Start, 230VAC 60A (VIS-100)	Cold Start, 230VAC 75A
<b>Over Current Protection</b>	95% - 110% rated output current	95% - 108% constant current limit Auto Recovery
<b>Over Voltage Protection</b>	110% - 135% shut off, re-power on to restart	110% - 240% rated output
<b>Over Temp. Protection</b>	85°C +/- 10°C (RTH1) shut down O/P voltage, auto-recover after fault removal	
<b>Operating Temperature</b>	-30°C to +70°C (refer to manual for derating curve)	
<b>Withstand Voltage</b>	I/P - O/P: 3.75kVAC	I/P-FG: 1.88kVAC    O/P-FG: 0.5kVAC
<b>Safety Standards</b>	UL8750 (N/A VIS-100), TUV EN61437-1, EN61347-2-13, PSE J61347-1, J6347-2-13	
<b>EMC Standards</b>	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,7,11, ENC61547	





ALL DIMENSIONS IN mm

POWER SUPPLY	A	B	C	D	E
<b>VIS-060-PWR</b>	172.4	30.6	183.0	62.5	40.5
<b>VIS-100-PWR</b>	182.4	30.6	193.0	62.5	40.5
<b>VIS-185-PWR</b>	213.0	34.2	228.0	68.0	38.8
<b>VIS-240-PWR</b>	229.2	34.2	244.2	68.0	38.8

### Wiring Distance Information

Using NuOptic 36V DC Supplies					
	Power Supply	22 AWG	18 AWG	16 AWG 2 (to VIS-JB-1)	16 AWG 4 (to VIS-JB-1)
<b>Single 40W</b>	VIS-060-PWR	26 m / 85 ft	90 m / 295 ft	130 m / 427 ft	260 m / 853 ft
<b>Double 40W</b>	VIS-100-PWR	Use VIS-JB-1	Use VIS-JB-1	65 m / 213 ft	130 m / 427 ft
<b>Triple 40W</b>	VIS-185-PWR	Use VIS-JB-1	Use VIS-JB-1	45 m / 148 ft	90 m / 295 ft
<b>Single 80W</b>	VIS-100-PWR	13 m / 43 ft	45 m / 145 ft	65 m / 213 ft	130 m / 427 ft
<b>Double 80W</b>	VIS-185-PWR	Use VIS-JB-1	Use VIS-JB-1	33 m / 108 ft	66 m / 217 ft
<b>Triple 80W</b>	VIS-240-PWR	Use VIS-JB-1	Use VIS-JB-1	22 m / 72 ft	44 m / 144 ft

Using 24V AC Supplies					
	Power Supply	22 AWG	18 AWG	16 AWG 2 (to VIS-JB-1)	16 AWG 4 (to VIS-JB-1)
<b>Single 40W</b>	24V AC	12 m / 39 ft	40 m / 131 ft	60 m / 197 ft	120 m / 394 ft
<b>Double 40W</b>	24V AC	Use VIS-JB-1	Use VIS-JB-1	30 m / 98 ft	60 m / 197 ft
<b>Triple 40W</b>	24V AC	Use VIS-JB-1	Use VIS-JB-1	20 m / 66 ft	40 m / 131 ft
<b>Single 80W</b>	24V AC	6 m / 20 ft	20 m / 66 ft	30 m / 98 ft	60 m / 197 ft
<b>Double 80W</b>	24V AC	Use VIS-JB-1	Use VIS-JB-1	15 m / 49 ft	30 m / 98 ft
<b>Triple 80W</b>	24V AC	Use VIS-JB-1	Use VIS-JB-1	10 m / 33 ft	20 m / 66 ft

### Ordering Information and Other Accessories

VIS-060-PWR	60 Watt, 5 Year Warranty, Powers (1) VIS-1040 Illuminator
VIS-100-PWR	100 Watt, 5 Year Warranty, Powers (2) VIS-1040 or (1) VIS-1080 Illuminators
VIS-185-PWR	185 Watt, 5 Year Warranty, Powers (3) VIS-1040 or (2) VIS-1080 Illuminators
VIS-240-PWR	240 Watt, 5 Year Warranty, Powers (3) VIS-1040 or (3) VIS-1080 Illuminator
VIS-JB-1	Outdoor rated, power and serial communication junction box for mutple illuminators
VIS-22AWG-4	22 Gauge 4 conductor wire for short-run illuminator input power or long-run serial communication
VIS-18AWG-2	18 Gauge 2 conductor wire for illuminator input power or VIS-JB-1 output power
VIS-16AWG-2	16 Gauge 2 conductor wire for VIS-JB-1 input power
VIS-16AWG-4	16 Gauge 4 conductor wire for long-run VIS-JB-1 input power (conductors should be paired together)