

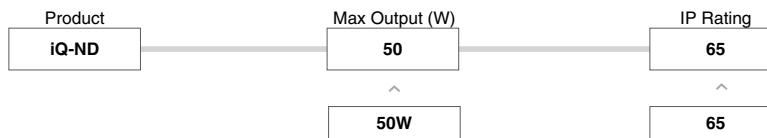
# iQ-ND-50-65 LED POWER SUPPLY 50W



iQ-ND-50-65 is Q-Tran's interior or exterior rated, easy to use power supply. The iQ-ND-50 comes ready for installation with an AC input cord for easy plug in to standard wall outlets, and with a wet rated barrel connector on the DC output for easy and fast installation. The power supply is rated IP65 and is capable of power up to 50W of load. The driver is a non-dimmable, 24VDC constant voltage output. This easy to use driver is great for those simple jobs that need a simple, high quality, low cost solution.



## Part Number Builder



## Voltage Drop Chart

| VDC | Watts (W) | 10 AWG (5.6mm <sup>2</sup> ) | 12 AWG (3.3mm <sup>2</sup> ) | 14 AWG (3.0mm <sup>2</sup> ) | 16 AWG (1.3mm <sup>2</sup> ) | 18 AWG (0.78mm <sup>2</sup> ) | 20 AWG (0.50mm <sup>2</sup> ) | 22 AWG (0.33mm <sup>2</sup> ) | 24 AWG (0.22mm <sup>2</sup> ) | 26 AWG (0.13mm <sup>2</sup> ) |
|-----|-----------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 24  | 17        | 897'                         | 564'                         | 355'                         | 223'                         | 140'                          | 88'                           | 55'                           | 35'                           | 22'                           |
|     | 25        | 567'                         | 356'                         | 224'                         | 141'                         | 88'                           | 56'                           | 35'                           | 22'                           | 14'                           |
|     | 40        | 309'                         | 194'                         | 122'                         | 77'                          | 48'                           | 30'                           | 30'                           | 12'                           | 7'                            |
|     | 80        | 130'                         | 82'                          | 51'                          | 32'                          | 20'                           | 13'                           | 8'                            | 5'                            | 3'                            |
|     | 100       | 84'                          | 53'                          | 33'                          | 21'                          | 13'                           | 8'                            | 5'                            | 3'                            |                               |

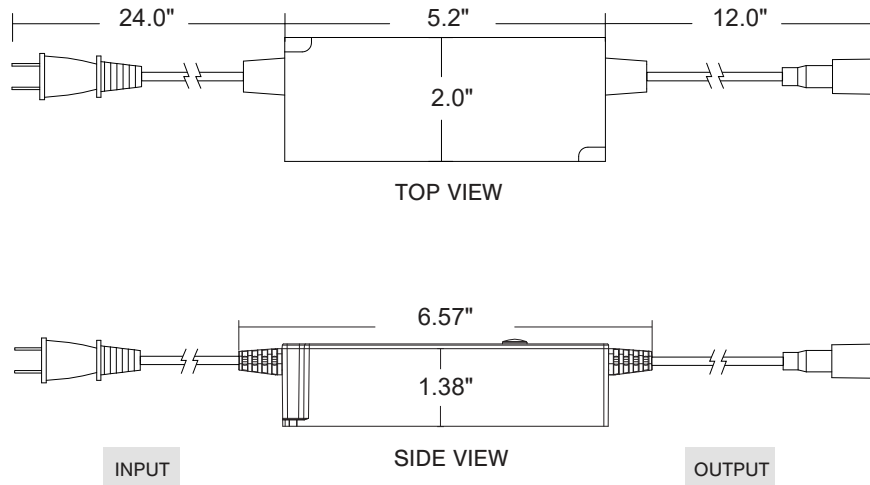
\*Distances are based on a 5% Voltage drop max.

- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved
- If dimming with optional 0-10V dimming module, use a dimmer rated for 0-10V operation



# iQ-ND-50-65

LED POWER SUPPLY 50W



## Performance

- Power Supply
  - : Rated for surface mount or recessed use
  - : Fully rated to operate low voltage load at listed wattage (No derating required)
  - : Voltage regulation to 2% or less of rated output voltage
  - : Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - : Short circuit protection (SCP)
  - : Over voltage protection (OVP)
  - : Over current protection (OCP)
  - : Live tested by the manufacture to ensure proper operation
  - : Manufacturer offers a minimum of 5 years warranty

- Limited output voltage and current, plus isolation for safe operation
- Fully potted driver(s) for moisture resistance
- Suitable for dry, damp, and wet locations
- Surface mount only
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -40°F to 140°F
- Fits up to 5 of the 40W drivers in the same housing
- 5 years warranty
- Class 2 output
- UL Listed



### Specifications

| Input                      |        |
|----------------------------|--------|
| Input Voltage (Vrms)       | 90-305 |
| Input Current, max (Arms)  | 0.63   |
| Inrush Current, max* (Apk) | 30     |
| Input Frequency (Hz)       | 47-63  |
| Input Power (W)            | 57     |

| Output                  |     |
|-------------------------|-----|
| Output Voltage, nom (V) | 24  |
| Output Current (A)      | 4.0 |
| Output Power (Wmax)     | 50  |

| Environmental  | Min  | Nom | Max |
|----------------|------|-----|-----|
| THD (%)        | ---  | --- | 20  |
| PF (%)         | 0.90 | --- | --- |
| Case Temp (°C) | ---  | --- | 70  |

\*- 200us event

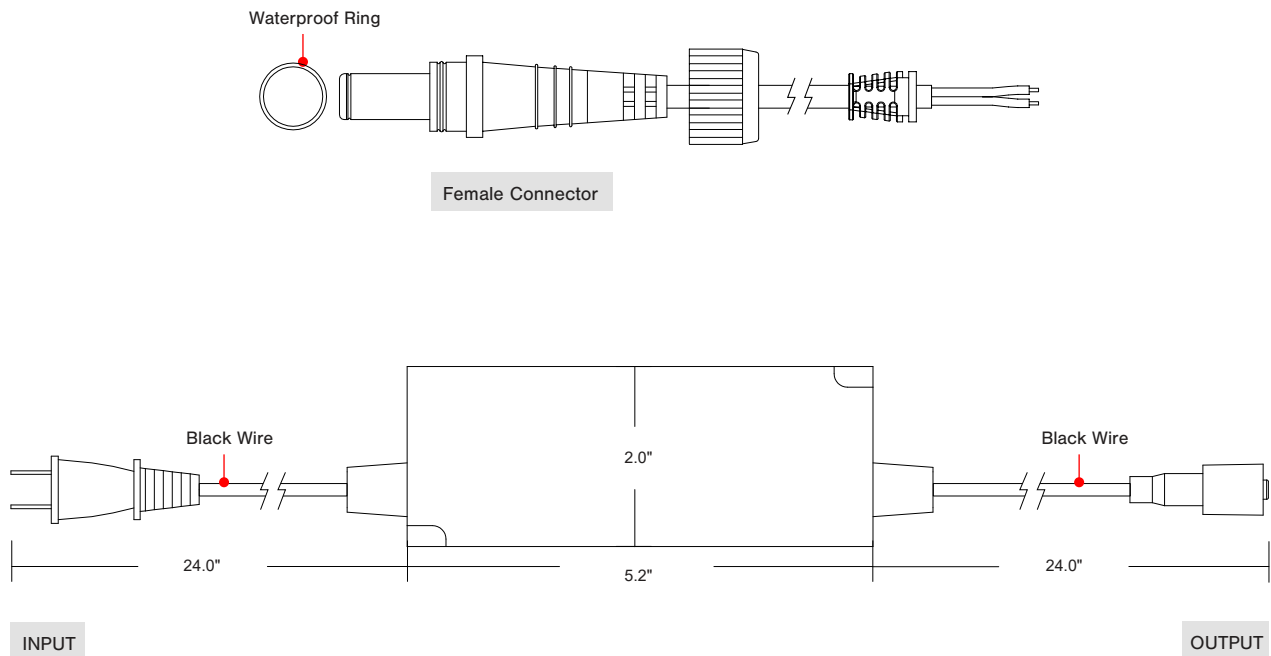
### Protections

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Class I, Class II Output
- IP65

### Compliance

- EMI/RFI : ISPR-22 Class B  
: IEC 61547  
: IEC 61000-3-2  
: IEC 61000-3-3  
: EN 55015
- Certified : UL/cUL 1012/1310/1585  
: UL-879  
: UL- 8750

### Wiring Diagram

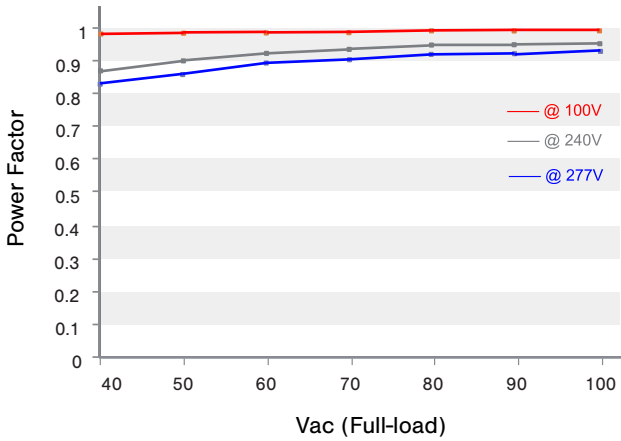


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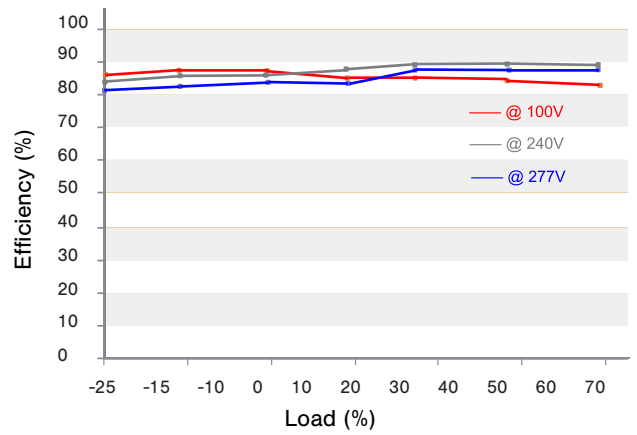
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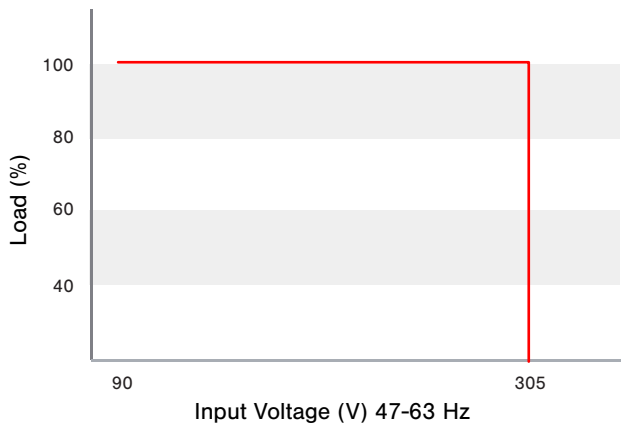
**Power Factor Characteristic (24V)**



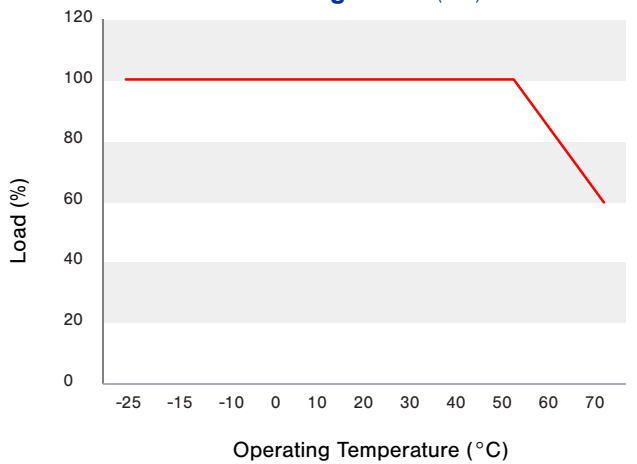
**Efficiency vs. Load (GLV50 24 Model)**



**Loading Curve**



**Derating Curve (SWI)**



**Derating Curve (SWO)**

