

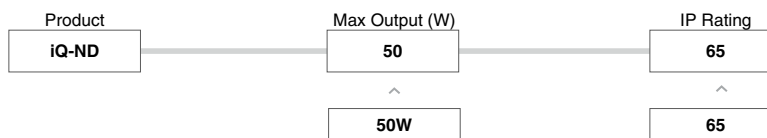
iQ-ND-50-65 LED POWER SUPPLY 50W



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 ²)	12 AWG (3.3mm ²)	14 AWG (3.0mm ²)	16 AWG (1.3mm ²)	18 AWG (0.78mm ²)	20 AWG (0.50mm ²)	22 AWG (0.33mm ²)	24 AWG (0.22mm ²)	26 AWG (0.13mm ²)
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'	

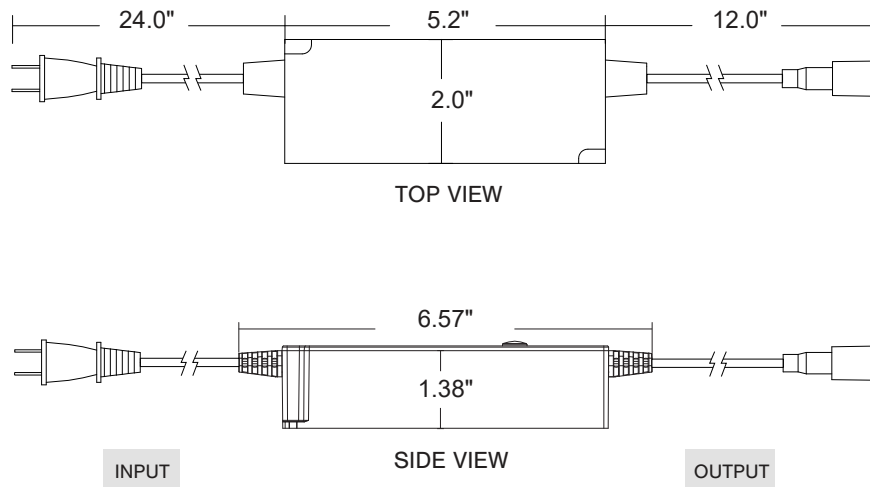
*Distances are based on a 5% Voltage drop max.

- 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
- 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

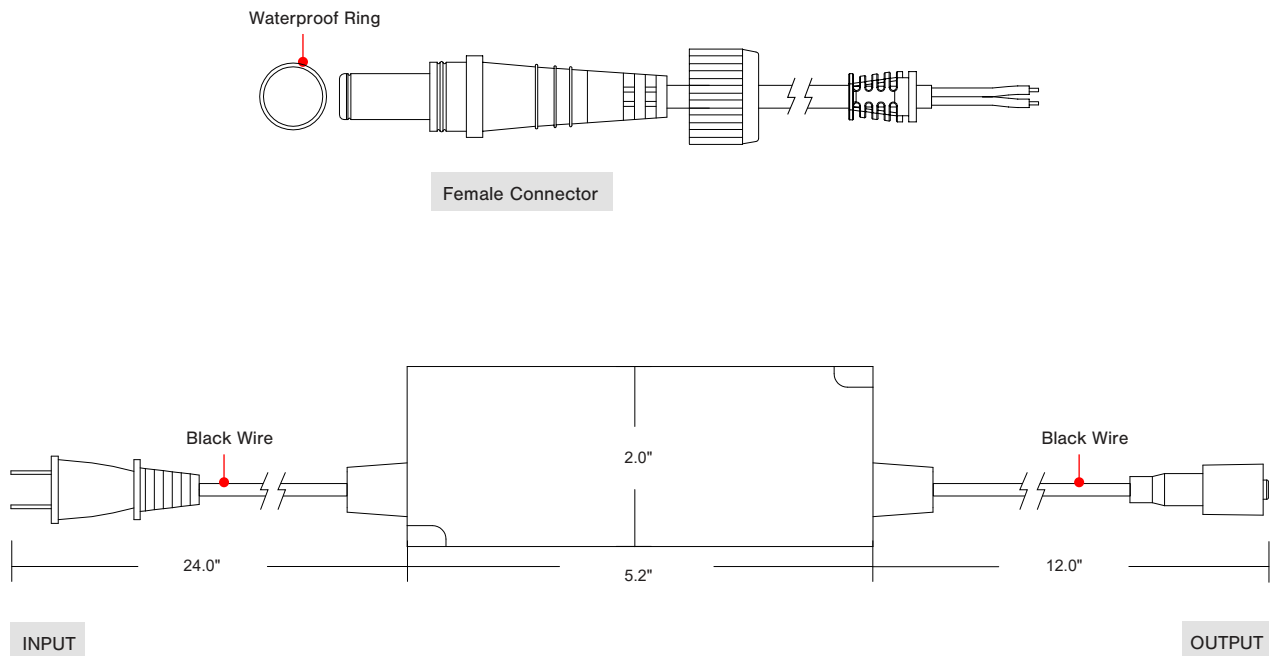
Protections

- 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

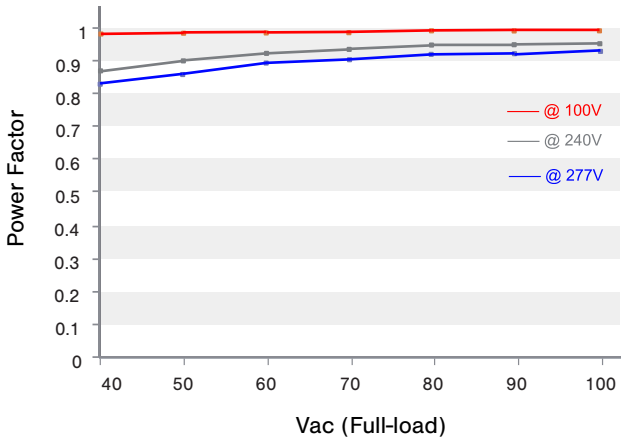


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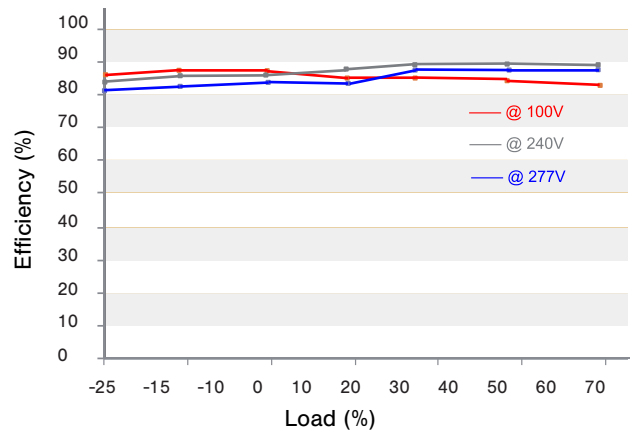
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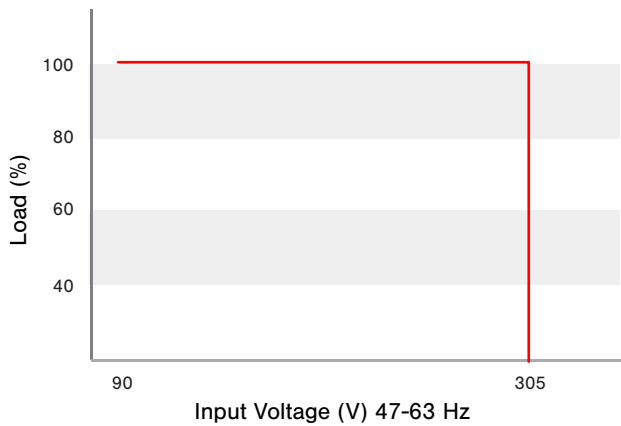
Power Factor Characteristic (24V)



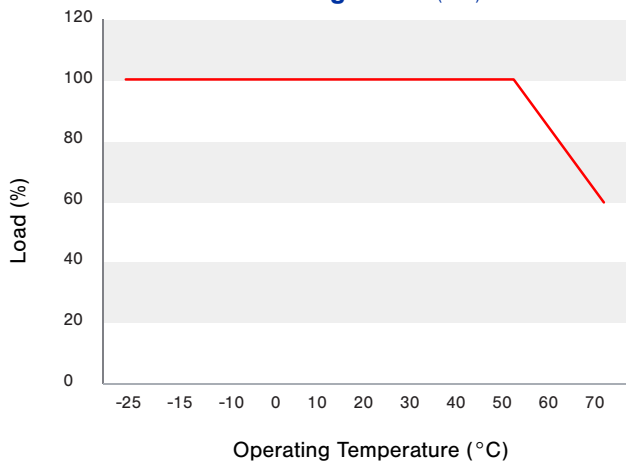
Efficiency vs. Load (GLV50 24 Model)



Loading Curve



Derating Curve (SWI)



Derating Curve (SWO)

