



## Q6M-DC+CAP

12V or 24V DC Power Supply -  
60W-100W



- UL listed rectified power supply for indoor applications
- Converts AC power to DC power
- Includes a robust rectifier and three tap selections for versatility
- Capable of handling up to 60 watts at 12VDC and 96 watts at 24VDC
- Built-in capacitor ensures no ripple or flicker in the output
- Guarantees smooth and stable power supply for LED fixtures
- Ideal for powering and dimming LED fixtures
- Provides reliable and high-quality performance.
- Dimming levels to 0.1% (Dim to Dark)

1	2	3	4	5	6	7	8	9
PRODUCT	WATTAGE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	NUMBER OF BREAKERS	BREAKER AMPERAGE	CHOKE	COLOR	OPTIONS
Q6M						CK-S		

Sample Part Number: Q6M-60DC+CAP-120-24VDC-1-2.5-CK-S-BK-CP

1

PRODUCT

Q6M

2

WATTAGE

60DC+CAP

▶

12060Hz

27760Hz

▶

60DC+CAP

100DC+CAP

3

PRIMARY VOLTAGE

12060Hz

27760Hz

▶

12060Hz

27760Hz

4

SECONDARY VOLTAGE

12VDC

▶

24VDC

5

NUMBER OF BREAKERS

1

2

6

BREAKER AMPERAGE

2.5

4

5

7

CHOKE

CK-S

8

COLOR

WH

BK

White (Standard)

Black Powder Coat Finish

9

OPTIONS

CP

N/A

Cord & Plug

## COMPATIBLE LEDS

### STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE	✓
SD-SW24/1.0-4.0	✓
SD-SW24/6.0	✓
SW-1A	
SW-XT	✓

### OTHER

DW-HE Tunable Applications	
DW-HE Warm Dim Applications	
WD	
SC	✓
RGB	
RGBW, RGBW-HE	

### SHEETS

Q-SHEETS SW	✓
Q-SHEETS DW Tunable Applications	
Q-SHEETS DW Warm Dim Applications	
Q-SHEETS RGB	
Q-SHEETS RGBW	

### MICRO 5

MICRO 5-SW	✓
MICRO 5-DW Tunable Applications	
MICRO 5-DW Warm Dim Applications	
MICRO 5-RGB	

## PRODUCT INFORMATION

- For indoor use only
- Suitable for damp locations
- Surface mount any position
- Use dimmers rated for magnetic low voltage load with neutral wire
- For supply connections use wires rated for at least 90°C
- Certified to UL 2108
- 10 Year Warranty



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### VOLTAGE DROP CHART

For non-dim applications, use primary tap #1  
For dimming applications, use primary tap #2

#### Secondary tap connection

##### No Dimming

Load Wattage (W)	TAP 1, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	143	90	57	36	22	14

Load Wattage (W)	TAP 2, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	302	190	120	75	47	30

Load Wattage (W)	TAP 3, 14V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	462	290	183	115	72	45

Load Wattage (W)	TAP 1, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	573	360	227	143	90	56
100	344	216	136	86	54	34

Load Wattage (W)	TAP 2, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	1210	760	479	301	189	119
100	726	456	287	181	114	71

Load Wattage (W)	TAP 3, 28V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	1847	1160	730	459	289	182
100	1108	696	438	276	173	109

##### With Dimming

Load Wattage (W)	TAP 1, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	TAP 1 NOT RECOMMENDED FOR USE WITH DIMMER					

Load Wattage (W)	TAP 2, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	143	90	57	36	22	14

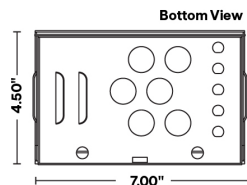
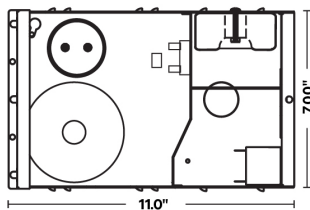
Load Wattage (W)	TAP 3, 14V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	302	190	120	75	47	30

Load Wattage (W)	TAP 1, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	TAP 1 NOT RECOMMENDED FOR USE WITH DIMMER					
100						

Load Wattage (W)	TAP 2, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	573	360	227	143	90	56
100	344	216	136	86	54	34

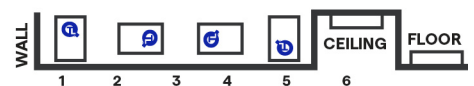
Load Wattage (W)	TAP 3, 28V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	1210	760	479	301	189	119
100	726	456	287	181	114	71

### 1 PRODUCT - DIMENSIONS



### MOUNTING

- 6 plane surface mount
- Rod suspension (Two - 1/4" threaded rods)





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## 2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Fixture Load Volts	Max Prim Amps @ 120V	Max Prim Amps @ 277V
60DC+CAP	60W	12VDC	0.90 A	0.40 A
60DC+CAP	60W	24VDC	0.90 A	0.40 A
100DC+CAP	100W	24VDC	1.4 A	0.55 A

### Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load
2.5	30W	60W
4	48W	96W
5	60W	120W

## HOUSING

- 18 gauge welded steel enclosure: 11"L x 7"W x 4.5"D
- Knockouts: 7
- Color: white powder coating (standard)
- (2) 3/8" threaded rods (rods not included)

## TOROIDAL TRANSFORMER - DUAL TAP (DT)

- (3) Primary taps: 12VDC, 13VDC, 14VDC or 24VDC, 26VDC, 28VDC
- Loads may be connected to one (1) of the primary taps up to the full watt rating of the PSC
- The advantage is that the PSC can be tapped to recover voltage drop and produce between 85%-100% light output
  - NOTE: See Voltage Drop Calculator at [www.qtl.lighting](http://www.qtl.lighting)

## TOROIDAL CHOKE

- QTL's standard choke, or "debuzzing coil" reduces noise when dimming and helps negate in-rush current that is prevalent with LED loads. It allows for quiet operation and eliminates nuisance tripping. Choke is standard.
- NOTE: Suspension rods are purchased separately and not from QTL, Inc.

## SECONDARY CIRCUIT

- Up to two (2) magnetic circuit breaker
- Amps: 2.5A, 4A, 5A
  - NOTE: Breakers are sized to the feed load per N.E.C. Article 411 (not to exceed 25 amps per load). All wiring by the electrical contractor must be Class 1 compliant to N.E.C.

## 8 COLOR





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### COMPATIBLE WIRING ACCESSORIES



UL Listed, miniature  
junction box, DRY/DMP  
(WET rated with silicone)