Q6M

12V or 24V AC Power Supply - 500W-750W



- Surface mount power supply center capable of mounting in all 6 planes
- Available from 500W-750W in 12 or 24V

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

Sample Part Number: **Q6M-500DT-277-24V-2-10-CK-L-WH**

1 PRODUCT

Q6M

2 WATTAGE

500DT
600DT
750DT
D-2×300DT

3 PRIMARY VOLTAGE

120 60Hz
277 60Hz

4 SECONDARY VOLTAGE

12V
24V

5 NUMBER OF BREAKERS

1
2
3
4
5

6 BREAKER AMPERAGE

5
10
12.5
15
20
25

7 CHOKE

CK-L 500W-750W

8 COLOR

WH White (Standard)
BK Black Powder Coat Finish

PRODUCT INFORMATION

- For indoor use only
- Suitable for damp locations
- Surface mount any position
- Dimmer, if used, must be magnetic low voltage dimmer
- 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

Distances shown reflect a 5% voltage drop (95% of rated voltage delivered) — the maximum recommended run.

24V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 24V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	688	432	272	171
100	344	216	136	86
150	229	144	91	57
200	172	108	68	43
250	138	86	54	34
300	115	72	45	29
350	98	62	39	24
400	86	54	34	
450	76	48	30	
500	69	43		
550	63	39		
600	57	36		

SECONDARY TAP 3, 26V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	1452	913	574	361
100	726	456	287	181
150	484	304	191	120
200	363	228	143	90
250	290	183	115	72
300	242	152	96	60
350	207	130	82	52
400	182	114	72	
450	161	101	64	
500	145	91		
550	132	83		
600	121	76		

With Dimming - use primary tap #2

SECONDARY TAP 2, 22V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER				

SECONDARY TAP 3, 24V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	608	383	240	151
100	304	191	120	76
150	203	128	80	50
200	152	96	60	38
250	122	77	48	30
300	101	64	40	25
350	87	55	34	22
400	76	48	30	
450	68	43	27	
500	61	38		
550	55	35		
600	51	32		

12V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 12V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	430	270	170	107
35	246	154	97	61
50	172	108	68	43
75	115	72	45	29
100	86	54	34	21
150	57	36	23	14
200	43	27	17	
240	36	23	14	
300	29	18		

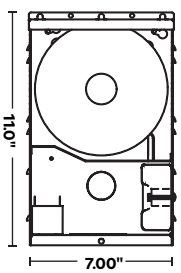
SECONDARY TAP 3, 13V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	908	571	359	226
35	519	326	205	129
50	363	228	143	90
75	242	152	96	60
100	182	114	72	45
150	121	76	48	30
200	91	57	36	
240	76	48	30	
300	61	38		

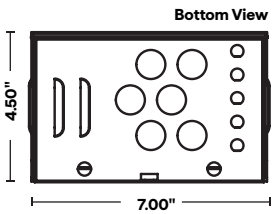
With Dimming - use primary tap #2

SECONDARY TAP 2, 11V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER				

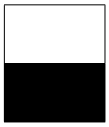
SECONDARY TAP 3, 12V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	380	239	150	95
35	217	137	86	54
50	152	96	60	38
75	101	64	40	25
100	76	48	30	19
150	51	32	20	13
200	38	24	15	
240	32	20	13	
300	25	16		

1 PRODUCT - DIMENSIONS





8 COLOR



White (Standard)

Black Powder Coat Finish

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Specification subject to change. Rev-09-15-26

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2 TECHNICAL INFORMATION

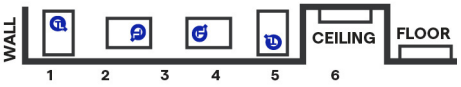
Size	Max Load (Watts)	PSC Efficiency	Max PSC Rating (Watts)	Max PSC Rating (VA)	Max Prim. Amps @ 120V	Max Prim. Amps @ 277V
500DT	500W	94%	530	757	4.7 A	0.2 A
600DT	600W	94%	626	690	5.7 A	2.4 A
750DT	750W	94%	795	863	7.1 A	3.0 A
D-2×300DT	600W	92%	600	690	5.8 A	2.4 A

Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load	Wire Color
5	60W	120W	Orange
10	120W	240W	Red
12.5	150W	300W	Yellow
15	180W	360W	Yellow
20	240W	480W	Blue
25	300W	600W	Violet

MOUNTING

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



HOUSING

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

SECONDARY CIRCUIT

- Up to three (3) magnetic circuit breakers
- Amps: 5A, 10A, 12.5A, 15A, 20A, 25A
- 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.

TOROIDAL TRANSFORMER - DUAL TAP (DT)

- (2) Primary taps: 12VAC, 13VAC or 24VAC, 26VAC
- AC inputs may be connected to one (1) of the primary taps
- No derating required for i ncandescent and halogen loads
- 50% derating required for LED retrofit loads
- The advantage is that the PSC can be tapped to recover voltage drop and produce between 85%-100% light output
- See Voltage Drop Calculator on website

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.

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