QTLS

12V or 24V AC Power Supply - 150W–1500W



- Single power supply ranging from 150W to 1500W
- Designed for indoor applications
- Focuses on providing the quietest, most efficient, safest, versatile, and longest-lasting power supply in the industry
- Comes standard with five taps for fine-tuning voltage adjustments at the transformer
- UL listed for surface or recess mounting
- Suitable for installation into a 2"x4" stud wall
- Can be installed in any thickness of drywall
- Provides reliable and consistent power supply for indoor lighting applications

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

Sample Part Number: **QTLS-150W-120-24V-1-10-CK-S-BK-PL**

1 PRODUCT

QTLS

2 WATTAGE

150W
300W
500W
600W
750W
900W
1050W
1200W
1350W
1500W

3 PRIMARY VOLTAGE

120	60Hz
230	50/60Hz
277	60Hz

230 & 277 not standard, call factory for pricing

4 SECONDARY VOLTAGE

12V
24V
120V
5.5V

5.5V & 120V not standard, call factory for pricing

5 NUMBER OF BREAKERS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

6 BREAKER AMPERAGE

5
10
12.5
15
20
25

7 CHOKE

CK-S	150W-300W
CK-L	500W-750W
CK-XL	900W-1500W

8 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

9 OPTIONS

N/A	
PL	Plenum Rated

PRODUCT INFORMATION

- UL 2108 & 1598 listed
- Surface, ceiling or wall mount
- Recessed wall mount type IC
- Suitable for use in insulated space — zero clearance
- Suitable for use in closets with clothes in direct contact
- Inherently protected type IC for supply connections use wire rated for at least 75˚C
- Suitable for indoor use only
- Suitable for damp locations
- Use dimmers rated for magnetic low voltage load
- Complies with N.E.C. article 411
- Isolation toroidal transformer
- 50/60 cycle A.C. only
- 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		

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, 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		

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		

SECONDARY TAP 4, 28V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	2217	1393	876	552
100	1108	697	438	276
150	739	464	292	184
200	554	348	219	138
250	443	279	175	110
300	369	232	146	92
350	317	199	125	79
400	277	174	110	
450	246	155	97	
500	222	139		
550	202	127		
600	185	116		

SECONDARY TAP 4, 26V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	1309	823	517	326
100	655	412	259	163
150	436	274	172	109
200	327	206	129	81
250	262	165	103	65
300	218	137	86	54
350	187	118	74	47
400	164	103	65	
450	145	91	57	
500	131	82		
550	119	75		
600	109	69		

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		

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, 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		

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		

SECONDARY TAP 4, 14V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1385	871	548	345
35	792	498	313	197
50	554	348	219	138
75	369	232	146	92
100	277	174	110	69
150	185	116	73	46
200	139	87	55	
240	115	73	46	
300	92	58		

SECONDARY TAP 4, 13V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	818	514	323	204
35	468	294	185	116
50	327	206	129	81
75	218	137	86	54
100	164	103	65	41
150	109	69	43	27
200	82	51	32	
240	68	43	27	
300	55	34		

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24V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 5, 30V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	2981	1874	1178	742
100	1490	937	589	371
150	994	625	393	247
200	745	468	295	185
250	596	375	236	148
300	497	312	196	124
350	426	268	168	106
400	373	234	147	
450	331	208	131	
500	298	187		
550	271	170		
600	248	156		

With Dimming - use primary tap #2

SECONDARY TAP 5, 28V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	2010	1264	794	500
100	1005	632	397	250
150	670	421	265	167
200	503	316	199	125
250	402	253	159	100
300	335	211	132	83
350	287	181	113	71
400	251	158	99	
450	223	140	88	
500	201	126		
550	183	115		
600	168	105		

12V SYSTEM

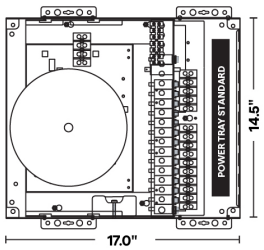
No Dimming - use primary tap #1

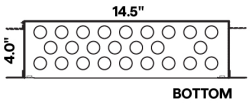
SECONDARY TAP 5, 15V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1863	1171	736	464
35	1065	669	421	265
50	745	468	295	185
75	497	312	196	124
100	373	234	147	93
150	248	156	98	62
200	186	117	74	
240	155	98	61	
300	124	78		

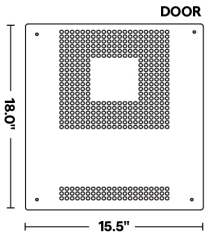
With Dimming - use primary tap #2

SECONDARY TAP 5, 14V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1256	790	497	313
35	718	451	284	179
50	503	316	199	125
75	335	211	132	83
100	251	158	99	63
150	168	105	66	42
200	126	79	50	
240	105	66	41	
300	84	53		

1 PRODUCT - DIMENSIONS







2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	PSC Efficiency	Max PSC Rating (Watts)	Max PSC Rating (VA)	Max Prim Amps @ 120V	Max Prim Amps @ 277V
QTLS-150	150W	92%	162	175	1.5 A	0.7 A
QTLS-300	300W	93%	321	347	2.9 A	1.3 A
QTLS-500	500W	93%	535	578	4.8 A	2.1 A
QTLS-600	600W	95%	630	680	5.7 A	2.5 A
QTLS-750	750W	95%	788	851	7.1 A	3.1 A
QTLS-900	900W	96%	936	1011	8.5 A	3.7 A
QTLS-1050	1050W	96%	1092	1180	9.9 A	4.3 A
QTLS-1200	1200W	96%	1248	1348	11.3 A	4.9 A
QTLS-1350	1350W	96%	1405	1518	12.7 A	5.5 A
QTLS-1500	1500W	96%	1560	1685	14 A	6.1 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

HOUSING

- 18-gauge welded steel enclosure: 14.5"W X 17.0"L X 4.0"D
- Door: 18.0"W X 15.5"L
- Color: white powder coating (standard)

MULTI-VOLT & TAPS

- Tap Options (in order from TAP1 to TAP5):
  - 12V: 11, 12, 13, 14, 15V
  - 24V: 22, 24, 26, 28, 30V

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Specification subject to change. Rev-11-12-26

QTLS

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- Knockouts: 25

- AC inputs may be connected to one (1) of the primary taps of the PSC
- No derating required for incandescent and halogen loads
- 50% derating required for LED retrofit loads
- The advantage is that loads at varying distances from the PSC can be tapped on different taps to recover voltage drop, allowing you to get the correct voltage at your load and produce between 85%-100% light output. (See QTL Voltage drop Calculator)
- Secondary Circuit Protection: 1-15 magnetic circuit breakers.
- Class 1 compliant to N.E.C.

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.

8 COLOR

Black Powder Coat Finish

White (Standard)

COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

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