Q-SET-3

12V or 24V AC Power Supply - 540W–900W



- UL Listed direct burial power supply
- Designed for use with the Q-Vault-5 IP68 direct burial power supply enclosure
- Available in 12VAC or 24VAC options
- Wattage options range from 540W to 900W
- Equipped with three secondary circuit breakers
- Holds three UL listings: Landscape Lighting, Pool & Spa, and Low-Voltage Luminaire Power Supply
- Suitable for both interior and exterior lighting applications
- Provides five secondary taps to compensate for voltage drop
- Allows for connecting loads to one or more secondary taps of the Q-SET-3.
- Must be purchased with Q-VAULT-5

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-SET			

Sample Part Number: **Q-SET-540-120(60Hz)-12V**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-SET	**540W** **720W** **900W**	**120** 60Hz **220** 60Hz **230** 50Hz **240** 60Hz **277** 60Hz	**12V** **24V**

PRODUCT INFORMATION

- For supply connections use wire rated for at least 90˚C
- Suitable for inground installation
- Use dimmers rated for magnetic low voltage load
- Not for installation to conduit extending directly to an underwater pool light forming shell
- Suitable for use with submersible luminaries
- Suitable for indoor & outdoor use
- WARNING: Risk of fire - if installation involves running wiring through a building structure, special wiring methods are needed. Consult a qualified electrician.
- CSA #239924
- Low Voltage Lighting Systems
  - CSA Class 3426-04 and Class 3426-94
  - CSA Standard C22.2 No. 250.0-08 - Luminaires : ANSI/ UL Standard 2108 - Low Voltage Lighting System
- Landscape Lighting Systems
  - CSA Class 3425-15 and Class 3425-95 :
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 1838 - Low Voltage Landscape Lighting Systems
- Component Hydromassage - 120V primary, 12V secondary
  - CSA Class 3425-96
  - ANSI/ UL Standard 379-Power Units for Fountain, Swimming Pool, and Spa Luminaires
- 10 Year Warranty

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Q-SET-3

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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		

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		

With Dimming - use primary tap #2

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	
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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		

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		

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		

With Dimming - use primary tap #2

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		

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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
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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
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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, 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		

12V SYSTEM

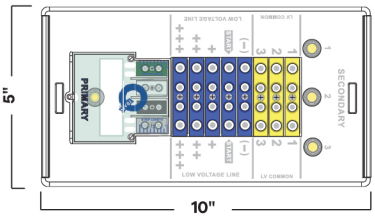
No Dimming - use primary tap #1

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, 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		

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Volt Rating	Secondary Circuit Breaker Size	Total Circuit Breaker Load	Number of Circuit Breaker	Total Q-SET Load
24V	7.5 A	180W	3	540W
24V	10 A	240W	3	720W
24V	12.5 A	300W	3	900W
12V	15 A	180W	3	540W
12V	20 A	240W	3	720W
12V	25 A	300W	3	900W

MULTI-VOLT & TAPS

- Two (2) primary taps, a switch or a dimmed tap to compensate for losses when dimming
- Five (5) secondary taps provide nominal secondary voltages of:
- 12V = 11V, 12V, 13V, 14V, & 15V
- 24V = 22V, 24V, 26V, 28V, & 30V
- Loads may be connected to one or more of the secondary taps of the

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PSC.

- No derating required for incandescent and halogen loads
- 50% derating require for LED retrofit loads
- For VOYA COB products refer to specific derating requirements on VOYA spec sheets
- 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)
- Primary Circuit Protection: All 120V units come with both a primary and secondary, hydraulic, magnetic circuit breaker. All have a primary auto-reset thermal protector, which is built into the transformer. This thermal protector will temporarily disconnect the primary if the transformer overheats due to an overload or saturation from a faulty dimmer.
- Secondary Circuit Protection: 3 secondary breakers

COMPATIBLE DIRECT BURIAL PRODUCTS

Q-VAULT



IP68 wet listed direct burial enclosure for one Q-SET-3

Q-CLIK



Watertight fitting for entryway in and out of QTL housing

Q-WIRE



Highly efficient, long-lasting wire

Q-TWO



Underground low voltage UF splice kit

QW-STRIPPER



UF cable outer jacket strip tool

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