



Q-SET-1

12V or 24V AC Power Supply -
60W-300W



BUY AMERICAN
ACT COMPLIANT



BUILD AMERICA
BUY AMERICA
COMPLIANT



MADE IN AMERICA
FROM DOMESTIC &
FOREIGN PARTS



- UL Listed direct burial power supply
- Designed to be used with the Q-VAULT-5 IP68 direct burial power supply enclosure
- Available in 12VAC or 24VAC options
- Wattage options range from 60W to 300W
- Equipped with one secondary circuit breaker
- 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-SETs.
- Must be purchased with Q-VAULT-5

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

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

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-SET	60W 120W 180W 240W 300W 180W, 240W, and 300W listed for Pool & Spa	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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VOLTAGE DROP CHART

Secondary tap connection

No Dimming - use primary tap #2

Load Wattage (W)	12V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	287	180	113	71	45	28
60	143	90	57	36	22	14
96	90	56	35	22	14	9
200	43	27	17	11	7	4
300	29	18	11	7	4	3

Load Wattage (W)	13V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	605	380	239	150	95	60
60	302	190	120	75	47	30
96	189	119	75	47	30	19
200	91	57	36	23	14	9
300	60	38	24	15	9	6

Load Wattage (W)	14V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	923	580	365	230	144	91
60	462	290	183	115	72	45
96	289	181	114	72	45	28
200	138	87	55	34	22	14
300	92	58	37	23	14	9

Load Wattage (W)	15V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	1242	780	491	309	194	122
60	621	390	246	154	97	61
96	388	244	153	97	61	38
200	186	117	74	46	29	18
300	124	78	49	31	19	12

Load Wattage (W)	24V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	1146	720	453	285	179	113
60	573	360	227	143	90	56
96	358	225	142	89	56	35
200	172	108	68	43	27	17
300	115	72	45	29	18	11

Load Wattage (W)	26V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	2420	1520	957	602	378	238
60	1210	760	479	301	189	119
96	756	475	299	188	118	74
200	363	228	144	90	57	36
300	242	152	96	60	38	24

Load Wattage (W)	28V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	3693	2320	1461	919	578	363
60	1847	1160	730	459	289	182
96	1154	725	457	287	181	114
200	554	348	219	138	87	55
300	369	232	146	92	58	36

Load Wattage (W)	30V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	4967	3120	1965	1236	777	489
60	2483	1560	982	618	388	244
96	1552	975	614	386	243	153
200	745	468	295	185	117	73
300	497	312	196	124	78	49

With Dimming - use primary tap #3

Load Wattage (W)	12V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER					
60						
96						
200						
300						

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	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
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200	91	57	36	23	14	9
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Load Wattage (W)	15V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	923	580	365	230	144	91
60	462	290	183	115	72	45
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300	92	58	37	23	14	9

Load Wattage (W)	24V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
30	TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER					
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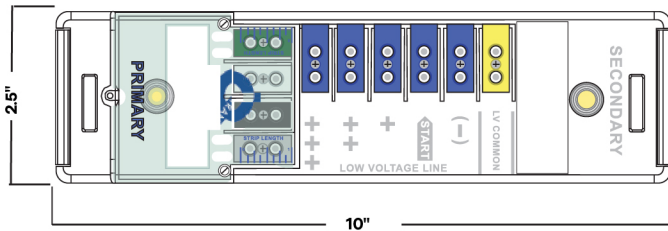
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1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Volt Rating	Secondary Circuit Breaker Size	Total Circuit Breaker Load	Number of Circuit Breaker	Total Q-SET Load
12V	5 A	60W	1	60W
12V	10 A	120W	1	120W
12V	15 A	180W	1	180W
12V	20 A	240W	1	240W
12V	25 A	300W	1	300W

24V	2.5 A	60W	1	60W
24V	5 A	120W	1	120W
24V	7.5 A	180W	1	180W
24V	10 A	240W	1	240W
24V	12.5 A	300W	1	300W

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 PSC.
- No derating required for incandescent and halogen loads
- 50% derating require 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)
- 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: 1 secondary breaker



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COMPATIBLE DIRECT BURIAL PRODUCTS

Q-VAULT	Q-CLIK	Q-WIRE	Q-TWO	QW-STRIPPER
				
IP68 wet listed direct burial enclosure for two Q-SET-1s	Watertight fitting for entryway in and out of QTL housing	Highly efficient, long-lasting wire	Underground low voltage UF splice kit	UF cable outer jacket strip tool