



## Q-SET-3

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



BUY AMERICAN  
ACT COMPLIANT



BUILD AMERICA  
BUY AMERICA  
COMPLIANT



MADE IN AMERICA  
FROM DOMESTIC &  
FOREIGN PARTS



- 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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### 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
180	48	30	19	12	7	5
360	24	15	9	6	4	2
540	16	10	6	4	2	2
720	12	8	5	3	2	1
900	10	6	4	2	1	1

Load Wattage (W)	13V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	101	63	40	25	16	10
360	50	32	20	13	8	5
540	34	21	13	8	5	3
720	25	16	10	6	4	2
900	20	13	8	5	3	2

Load Wattage (W)	14V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	154	97	61	38	24	15
360	77	48	30	19	12	8
540	51	32	20	13	8	5
720	38	24	15	10	6	4
900	31	19	12	8	5	3

Load Wattage (W)	15V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	207	130	82	51	32	20
360	103	65	41	26	16	10
540	69	43	27	17	11	7
720	52	33	20	13	8	5
900	41	26	16	10	6	4

Load Wattage (W)	24V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	191	120	76	48	30	19
360	96	60	38	24	15	9
540	64	40	25	16	10	6
720	48	30	19	12	7	5
900	38	24	15	10	6	4

Load Wattage (W)	26V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	403	253	160	100	63	40
360	202	127	80	50	32	20
540	134	84	53	33	21	13
720	101	63	40	25	16	10
900	81	51	32	20	13	8

Load Wattage (W)	28V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	616	387	243	153	96	61
360	308	193	122	77	48	30
540	205	129	81	51	32	20
720	154	97	61	38	24	15
900	123	77	49	31	19	12

Load Wattage (W)	30V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	828	520	327	206	129	81
360	414	260	164	103	65	41
540	276	173	109	69	43	27
720	207	130	82	51	32	20
900	166	104	65	41	26	16

##### With Dimming - use primary tap #3

Load Wattage (W)	12V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER					
360						
540						
720						
900						

Load Wattage (W)	13V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	48	30	19	12	7	5
360	24	15	9	6	4	2
540	16	10	6	4	2	2
720	12	8	5	3	2	1
900	10	6	4	2	1	1

Load Wattage (W)	14V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	101	63	40	25	16	10
360	50	32	20	13	8	5
540	34	21	13	8	5	3
720	25	16	10	6	4	2
900	20	13	8	5	3	2

Load Wattage (W)	15V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	154	97	61	38	24	15
360	77	48	30	19	12	8
540	51	32	20	13	8	5
720	38	24	15	10	6	4
900	31	19	12	8	5	3

Load Wattage (W)	24V - TAP 2 (START)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER					
360						
540						
720						
900						

Load Wattage (W)	26V - TAP 3 (+)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	191	120	76	48	30	19
360	96	60	38	24	15	9
540	64	40	25	16	10	6
720	48	30	19	12	7	5
900	38	24	15	10	6	4

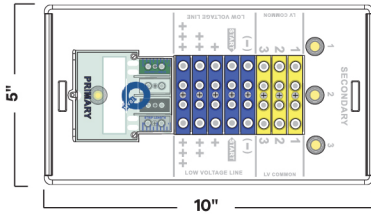
Load Wattage (W)	28V - TAP 4 (++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	403	253	160	100	63	40
360	202	127	80	50	32	20
540	134	84	53	33	21	13
720	101	63	40	25	16	10
900	81	51	32	20	13	8

Load Wattage (W)	30V - TAP 5 (+++)					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
180	616	387	243	153	96	61
360	308	193	122	77	48	30
540	205	129	81	51	32	20
720	154	97	61	38	24	15
900	123	77	49	31	19	12

**Q-SET-3**

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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	15 A	180W	3	540W
12V	20 A	240W	3	720W
12V	25 A	300W	3	900W
24V	7.5 A	180W	3	540W
24V	10 A	240W	3	720W
24V	12.5 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 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)
- 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



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COMPATIBLE DIRECT BURIAL PRODUCTS

<b>Q-VAULT</b>	<b>Q-CLIK</b>	<b>Q-WIRE</b>	<b>Q-TWO</b>	<b>QW-STRIPPER</b>
				
IP68 wet listed direct burial enclosure for one Q-SET-3	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