



## Q-SET-mLED

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



- Magnetic power supply designed for in-ground installation
- Comes with 2 primary taps
- Available in 60W-300W options
- Offers 12VDC or 24VDC output
- Loads can be connected to one of the taps up to the full rating of the power supply
- Allows for tapping loads at varying distances to recover voltage drop
- Designed to be used with Q-Tran's Q-Vault 5
- Q-Vault 5 can accommodate two Q-SET mLED units for a maximum total power of 600W
- Suitable for outdoor lighting applications, including landscape, pool & spa, decks, patios, walkways, and more.

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

Sample Part Number: Q-SET-mLED-60W-120-12VDC

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-SET-mLED	<p>60W 120W 180W 240W 300W</p> <p>60W 100W 200W 300W</p>	<p>120 60Hz 220 50/60Hz 230 50/60Hz 240 50/60Hz 277 60Hz</p> <p>120 60Hz 220 50/60Hz 230 50/60Hz 240 50/60Hz 277 60Hz</p>	<p>12VDC</p> <p>24VDC</p>

## COMPATIBLE LEDS

### STATIC WHITE

SW/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+	
SD-SW24/1.0-4.0	✓
SD-SW24/6.0	
SW-IA	
SW-XT	✓

### OTHER

DW-HE Tunable Applications	
DW-HE Warm Dim Applications	
WD	
SC	
RGB	
RGBW, RGBW-HE	

### SHEETS

Q-SHEETS SW	
Q-SHEETS DW Tunable Applications	
Q-SHEETS DW Warm Dim Applications	
Q-SHEETS RGB	
Q-SHEETS RGBW	

### MICRO 5

MICRO 5-SW	✓
MICRO 5-DW Tunable Applications	
MICRO 5-DW Warm Dim Applications	
MICRO 5-RGB	

## PRODUCT INFORMATION

- For supply connections use wire rated for at least 90°C
- Suitable for ground 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.
- Operating temperature range: -40°F to +140°F
- 5 year warranty



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### VOLTAGE DROP CHART

For non-dim applications, use primary tap #1

For dimming applications, use primary tap #2

#### Secondary tap connection

##### No Dimming

Load Wattage (W)	TAP 1, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	143	90	57	36	22	14
120	72	45	28	18	11	7
180	48	30	19	12	7	5
240	36	23	14	9	6	4
300	29	18	11	7	4	3

##### With Dimming

Load Wattage (W)	TAP 1, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60						
120						
180						
240						
300						

TAP 1 NOT RECOMMENDED FOR USE WITH DIMMER

Load Wattage (W)	TAP 2, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	302	190	120	75	47	30
120	151	95	60	38	24	15
180	101	63	40	25	16	10
240	76	48	30	19	12	7
300	60	38	24	15	9	6

Load Wattage (W)	TAP 2, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	143	90	57	36	22	14
120	72	45	28	18	11	7
180	48	30	19	12	7	5
240	36	23	14	9	6	4
300	29	18	11	7	4	3

Load Wattage (W)	TAP 1, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	573	360	227	143	90	56
100	344	216	136	86	54	34
200	172	108	68	43	27	17
300	115	72	45	29	18	11

Load Wattage (W)	TAP 1, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60						
100						
200						
300						

TAP 1 NOT RECOMMENDED FOR USE WITH DIMMER

Load Wattage (W)	TAP 2, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	1210	760	479	301	189	119
100	726	456	287	181	114	71
200	363	228	144	90	57	36
300	242	152	96	60	38	24

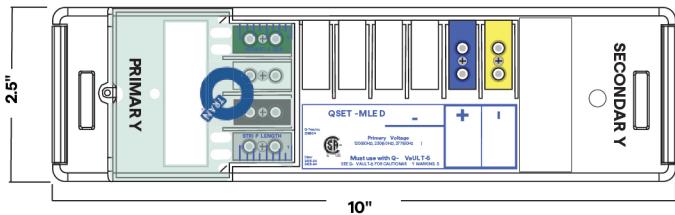
Load Wattage (W)	TAP 2, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
60	573	360	227	143	90	56
100	344	216	136	86	54	34
200	172	108	68	43	27	17
300	115	72	45	29	18	11



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### 1 PRODUCT - DIMENSIONS



### 2 TECHNICAL INFORMATION

Wattage	Secondary Voltage
60W	12VDC
120W	12VDC
180W	12VDC
240W	12VDC
300W	12VDC
60W	24VDC
100W	24VDC
200W	24VDC
300W	24VDC

#### Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load
4	-	96W
5	60W	-
10	120W	240W
12.5	-	300W
15	180W	-
20	240W	480W
25	300W	600W

### SPECIFICATIONS

Input	12VDC			24VDC		
Input Voltage (Vrms)	120	230	277	120	230	277
Input Current, max (Arms)	0.58	0.30	0.25	0.98	0.51	0.42
Inrush Current, max* (Apk)	-	-	-	45	90	100
Input Frequency (Hz)	50/60		50/60			
Input Power (Wmax)	70		117			

Output	12VDC			24VDC		
Output Voltage, nom (V)	12			24		
Output Current (A)	5.0			4.1		
Output Power (Wmax)	60			100		
Dimming 0-10V, max	2mA					

Environmental	Min	Nom	Max	Min	Nom	Max
THD (%)	-	-	20	-	-	20
PF (%)	0.90	-	-	0.90	-	-
Case Temp (°F)	-	-	90	-	-	90

\*-200us event

### PROTECTIONS

- Short Circuit Protection (SCP)
- Overload Protection (OLP)

### COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - CISPR 15
  - CISPR 22 Class A
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08



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### COMPATIBLE DIRECT BURIAL PRODUCTS



IP68 wet listed direct burial enclosure for two Q-SET-mLEDs



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