



Traffic Safety Corporation
 2708 47th Ave.
 Sacramento, CA 95822-3806
 Toll Free: 888.446.9255
 Tel: 916.394.9884
 Fax: 916.394.2809
 Email: sales@xwalk.com
 Web: www.xwalk.com



TS40
Flashing LED Edge Lit Signs
MUTCD Compliant

How to Specify the TS40

1. Sign Materials - Construction - Compliance

- a. Sign reflective sheeting in compliance with current MUTCD requirements for reflectivity, wording, materials and mounting guidelines.
- b. Pole mounting requirements per MUTCD guidelines.
- c. Sign constructed of .080 aluminum with stainless / aluminum fasteners and weatherproof sealant.
- d. All mounting hardware fasteners shall be theft deterrent hardware preferably Tufnut security hardware where applicable.
- e. 3/8" x 3" stainless steel tap bolts for standard mounting hardware (other mounting options available).
- f. Battery access compartment located at lower portion of sign to allow access to battery compartment for maintenance (field replaceable battery).
- g. Solar signs to have a 2" to 4" wide casing, depending on model, between front and rear sign faces to enclose all wiring, battery, PCB and LED light connections. AC powered signs 2" wide casing.
- h. Security keyed ON/OFF switch located on side of casing controlling operation.
- i. Vented weatherproof casing allowing ambient air to circulate for internal components and prevent condensation and excessive heat buildup.
- j. Compression type solar panel connector allowing optimum directional placement of solar collector.
- k. Anti-theft placards and decals for theft / vandalism deterrents.
- l. Serial # plate with manufacture date for informational and warranty purposes.

2. Battery

	12 Volt 12 Volt 22000mAh SLA	6 Volt 2 - 6 Volt 9000mAh SLA (18 Ah Total)
Dimensions	7.14" x 3.03" x 6.59"	5.95" x 1.34" x 3.70"
Weight	12.74 lb.	3.09 lb.
Terminal Connector	Nut/Bolt	T2 - Spade
Operating Temperature	-40°F to +156°F	-40°F to +156°F
Warranty	1 Year	1 Year

- a. Battery mounting with aluminum fasteners and brackets for in-field replacement after life cycle has expired.
- b. Battery casing fully sealed in a moisture and corrosion proof casing.
- c. Required battery replacement every 18 months from manufacture date.

3. Solar Panel Collector

- a. Solar panels to be 6/12 volt 15/20/30 watt collector type depending on type of sign, region, LED light quantities and application uses.

	15 Watt	20 Watt	30 Watt
Max Power	15W	20W	30W
Operating Voltage	8.0V	17.2V	17.4V
Operating Current	1.88A	1.16A	1.73A
Max Voltage	10.8V	21.6V	21.6V
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Dimensions	16.75" x 14.00" x 1.125"	22.75" x 16.75" x 1.125"	26.5" x 16.75" x 1.125"
Type	Polycrystalline	Polycrystalline	Polycrystalline

- b. Solar panel bracket constructed of aluminum alloy.
- c. Schedule 40 3/4" aluminum tubing attached to the solar panel bracket to the upper casing of the sign casing. Panel must face south.
- d. Angle of panel shall be 45° to 65° depending on region. Special attention required to insure solar collector has good access to solar power with no obstructions for optimum operation.
- e. Electrical connectors shall be insulated spade type connectors.
- f. Tempered glass solar cell sealer/protector.

4. LED Lights (Light Emitting Diodes)

- a. Sign shall have a series of either 4 - 8 LEDs depending on sign size and configuration.
- b. All LEDs shall be compliant to MUTCD Section 2A.07 and match colors acceptable to each type of signal per this specification.
- c. LED flash rate at 50 to 60 times per minute per MUTCD Section 2A.07 requirements.
- d. LED light dimensions: 1/8" Cree LED inside a 1-1/4" diameter lens.
- e. 100,000 hour rated LED life (11.415 years).
- f. High impact acrylic water/vibration proof housing lens.
- g. Completely resin sealed lens.
- h. Operating voltage: 6/12 VDC / Amp Draw 85ma.
- i. Rubber grommet mounted (for easy in-field replacement) into a 1-1/4" hole.
- j. Output power of LEDs approximate 60,000 mcd brightness.
- k. LEDs wired in series for simultaneous flash pattern per MUTCD.
- l. Wiring completely enclosed in sign casing with access for replacement.

5. Circuitry / LED Lighting Control Unit

- a. Circuit shall have a minimum of 4 output LED light circuits for use.
- b. Circuit shall control flash rates at 50 to 60 times per minute.
- c. Circuit shall flash 500 milliseconds / 150 milliseconds per flash.
- d. Available dusk-to-dawn flash mode.
- e. Micro-controller technology.
- f. Keyed "ON/OFF" activation for tamper/vandalism protection.
- g. Operation of circuit temperatures -40°C to +80°C.
- h. Circuit enclosed in weatherproof casing.
- i. Low voltage protection program (protecting from total discharge of battery).
- j. All wiring connections in accordance to standard wiring protection guidelines.

6. Warranty

- 10 Year Solar Panel
- 5 Year Sign Construction
- 2 Year LED Lights & Circuitry
- 1 Year Battery

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