

**Length** 63.39 in (1610 mm)  
**Width** 31.89 in (810 mm)  
**Height** 1.34 in (34 mm)  
**Frame** Aluminum  
**Weight** 33 lbs (15 kg)

## Sunmodule

### SW 155/165/175 mono

The Sunmodule leads the PV industry in quality, output and reliability. The fully automated production process at SolarWorld's factories ensures consistently high quality and enables tight power tolerances.

The glass is set deep into the module frame and secured with silicone adhesive, which provides exceptional rigidity for the entire module and prevents frame loosening from handling or sliding snow and ice. Tests carried out in accordance with IEC 61215, which applied loads up to 5.4 kN/m<sup>2</sup>, confirm the Sunmodule's ability to withstand heavy accumulations of snow and ice.

The Sunmodule's patented low-profile junction box provides exceptional protection against corrosion and features integral heat sinks that help maintain a lower temperature if and when any of the 25 amp Schottky bypass diodes are conducting. The junction box is connected by a solid welded bond to maximize reliability and performance life. In addition, the integrated high-quality robust cables are factory equipped with NEC 2008 code-compliant locking connectors. Each Sunmodule is covered by a 25-year performance warranty and is recyclable.



# Sunmodule

## SW 155/165/175 mono

### Performance under standard test conditions

		SW 155	SW 165	SW 175
Maximum power	$P_{max}$	155 Wp	165 Wp	175 Wp
Open circuit voltage	$V_{oc}$	43.6 V	44.0 V	44.4 V
Maximum power point voltage	$V_{mpp}$	34.8 V	35.3 V	35.8 V
Short circuit current	$I_{sc}$	4.90 A	5.10 A	5.30 A
Maximum power point current	$I_{mpp}$	4.46 A	4.68 A	4.89 A

### Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 155	SW 165	SW 175
Maximum power	$P_{max}$	110.8 Wp	118.0 Wp	125.1 Wp
Open circuit voltage	$V_{oc}$	39.4 V	39.8 V	40.2 V
Maximum power point voltage	$V_{mpp}$	31.2 V	31.6 V	32.1 V
Short circuit current	$I_{sc}$	4.05 A	4.22 A	4.38 A
Maximum power point current	$I_{mpp}$	3.55 A	3.73 A	3.90 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 95% (+/- 3%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### Component materials

Cells per module	72
Cell type	monocrystalline silicon
Cell dimensions	125 x 125 mm <sup>2</sup>

### System integration parameters

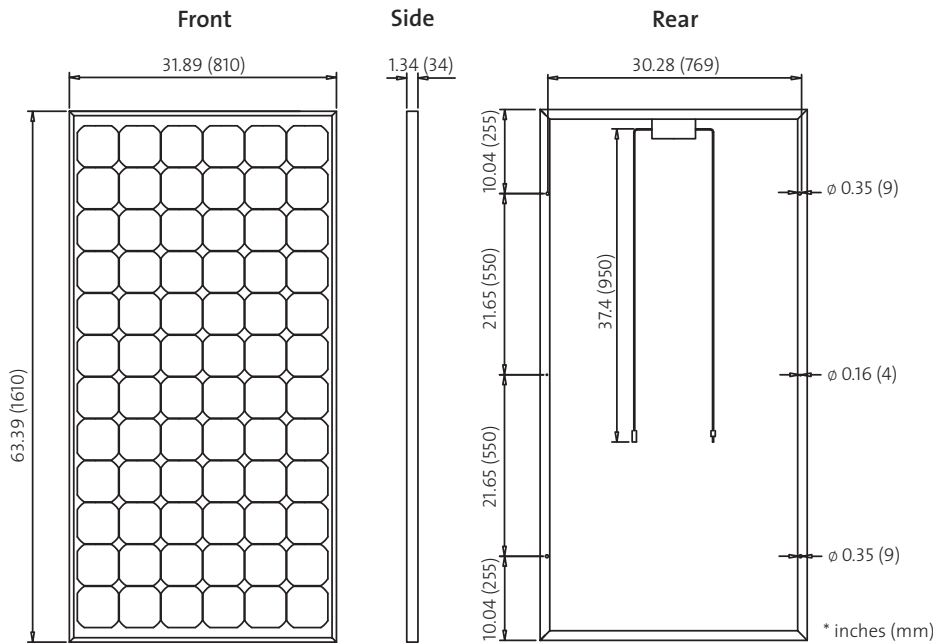
Maximum system voltage SC II	1,000 V <sub>DC</sub>
Maximum system voltage USA NEC	600 V <sub>DC</sub>
Maximum series fuse rating	15 A

### Thermal characteristics

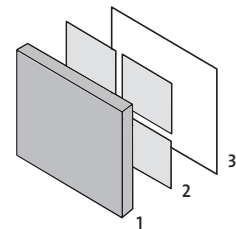
NOCT	46°C
TC $I_{sc}$	0.036 %/K
TC $V_{oc}$	-0.33 %/K
TC $P_{max}$	-0.47 %/K

### Additional data

Power tolerance	+/- 3 %
Junction box	IP 65
Connector	MC type 4



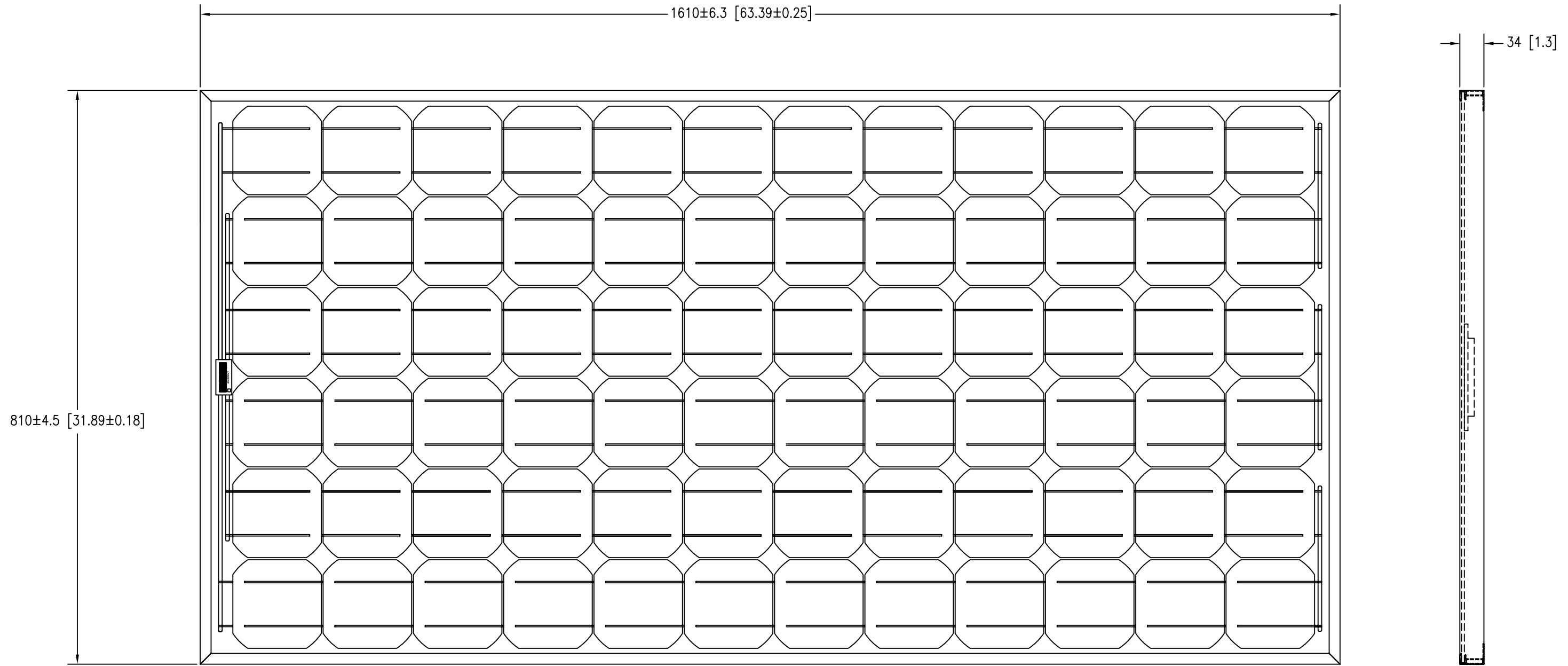
### Construction



- 1] Front: tempered glass
- 2] crystalline solar cells embedded in EVA (ethylene-vinyl-acetate)
- 3] Rear: Tedlar

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REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE PER ECO 9021	01/09/07	D.K.
B	SHOW FRONT,SIDE VIEWS, ADD SECOND SHEET PER ECO 9029	01/24/07	D.K.



**REFERENCE ONLY**

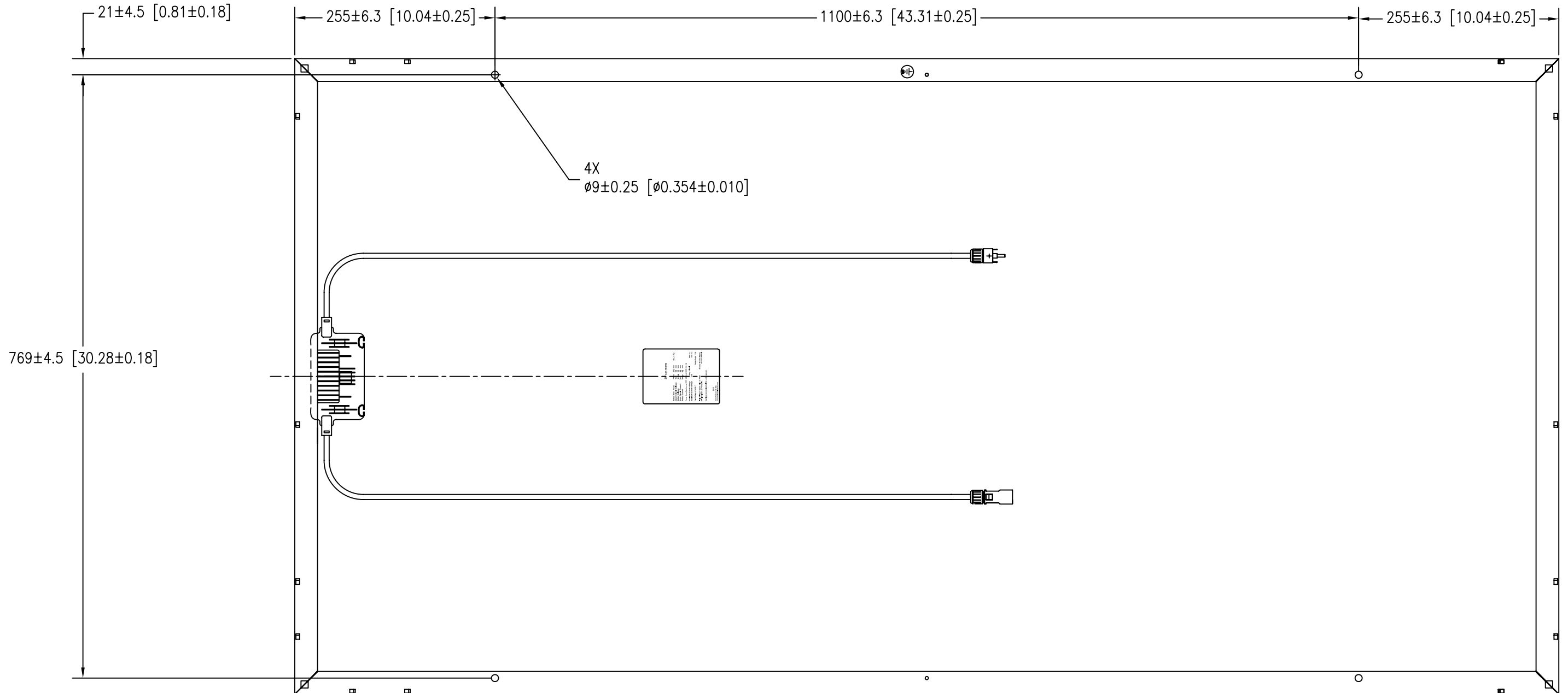
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: ± FRACTIONS DECIMALS ANGLES <del>1/X- .X -- X XX' --</del> <del>.XX --</del> <del>.XXX --</del> BREAK ALL SHARP EDGES 0.25 [.010] 0.76 [.030] REMOVE ALL BURRS DIMENSIONS PER ASME Y14.5M FINISH DO NOT SCALE DRAWING	CONTRACT NO.	
	APPROVALS	DATE
	DRAFTER M.T.	01/03/07
	DESIGNER M.T.	01/03/07
	ENGINEER D.K.	01/09/07
APPROVED D.K.	01/09/07	

SolarWorld Industries America  
 P.O. BOX 6032 Camarillo, CA 93011

MODULE, 72 CELL, LOW PROFILE  
 (SIZE & MOUNTING)

SIZE	FSCM NO.	CODE	DRAWING NO.	REV.
B			029253	B
SCALE:		WEIGHT	SHEET 1 OF 2	

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**REFERENCE ONLY**

1. DIMENSIONS IN [ ] ARE INCHES

DRAWING NO.	REV.
029253	B
SHEET 2 OF 2	