ATTACHMENT B: PROJECT TYPICALS

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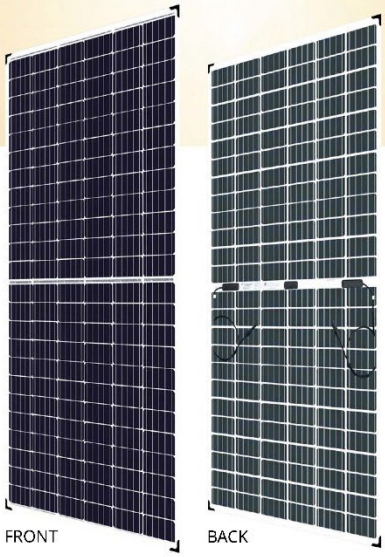
NEW

CanadianSolar

BiKu MODULE

NEW GENERATION BIFACIAL MODULE
FRONT POWER RANGE: 360W ~ 375W
ADDITIONAL BACK POWER OUTPUT UP TO 30%
CS3U-360|365|370|375MB-FG



5BB cell MBB cell

* Both 5BB and MBB modules will be supplied.

MORE POWER

UP TO 30% — Up to 30% more energy yield due to back side power generation

41°C — Low NMOT: 41 ± 3 °C
Low temperature coefficient (Pmax): -0.37 % / °C

Innovative module design, Better shading tolerance

30 years power output warranty

10 years product warranty on materials and workmanship

MORE RELIABLE

Lower internal current, lower hot spot temperature

Minimizes micro-cracks and prevents snail trails

Fire Class A and Type 3 / Type 13

*** — Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2008 / Quality management system
ISO 14001:2004 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE
UL 1703: CSA

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	144 [2 x (12 x 6)]
Dimensions	2012 × 992 × 5.8 mm (79.2 × 39.1 × 0.23 in) without J-Box and corner protector
(Incl. corner protector)	2015 × 995 × 8.5 mm (79.3 × 39.2 × 0.33 in) without J-Box

Badger Mountain Solar Energy Project

Figure B-1
Example Solar Module

AVANGRID RENEWABLES

Example Tracker Components
(Represented by Array Technologies DuraTrack HZ v3)

Source: Array Technologies Inc., 3901 Midway Place NE, Albuquerque, NM 87109 USA, www.arraytechinc.com.

GENERAL

Annual Power Consumption (kWh per 1 MW)	400 kWh per MW per year, estimated
Land Area Required per 1 MW	Approx. 5 to 5.75 acres per MW @ 33% GCR (site and design specific)

TYPICAL STRUCTURAL AND MECHANICAL FEATURES

Tracking Type	Horizontal single axis
Tilt Angle	0°
kW per Drive Motor	~ 650–800 kW DC
String Voltage	Up to 1,500V DC
Maximum Linked Rows	28
Maximum Row Size	80 modules (crystalline, 1,000V DC) & 90 modules (crystalline, 1,500V DC)
Drive Type	Rotating gear drive
Motor Type	2 HP, 3 PH, 480V AC
Motors per 1 MW AC	Less than 2
East-West / North-South Dimensions	Site / module specific
Array Height	54" standard, adjustable (46" min height above grade)
Ground Coverage Ratio (GCR)	Flexible, 28–45% typical
Modules Supported	Most commercially available, including frameless crystalline and thin film
Tracking Range of Motion	± 52°
Operating Temperature Range	-30°F to 140°F (-34°C to 60°C)
Module Configuration	Single-in-portrait standard. Dual-in-landscape (crystalline), four-in-landscape (thin film) also available.
Module Attachment	Single fastener, high-speed mounting clamps with integrated grounding. Traditional rails for crystalline in landscape, custom racking for thin film and frameless crystalline per manufacturer specs.
Materials	HDG steel and aluminum structural members

Badger Mountain Solar Energy Project

Figure B-2
Example Solar Tracker Components

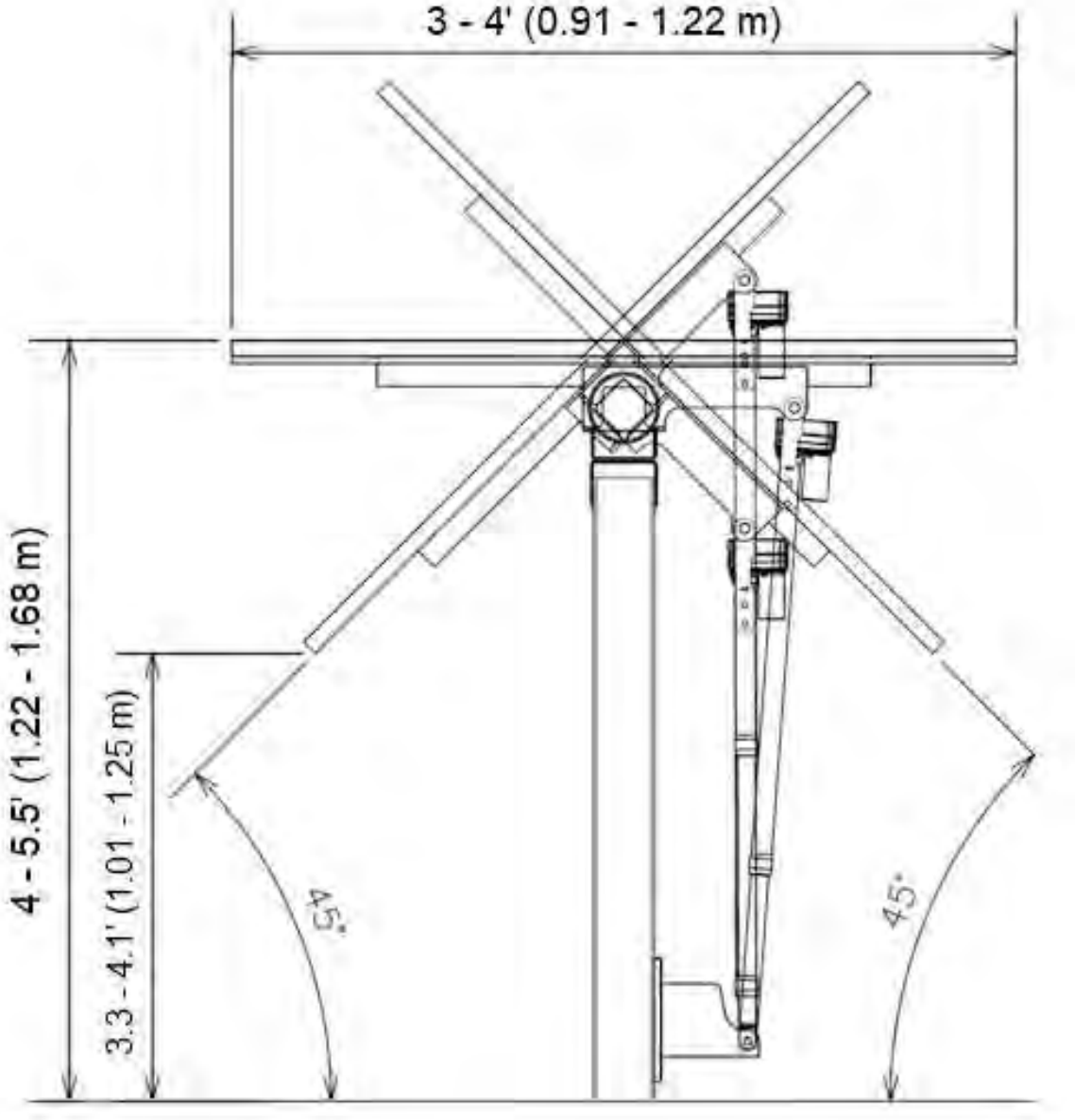


Figure B-3. Example Solar Tracker System

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