



RB-1000
1 PANEL RAQ in a BOX A
UPC: 00868479000170



RB-1000 BI-FOLD FOLDED

RB-1000 BOX DIMENSIONS

Length	42"	1066.8 mm
Width	8"	203.2 mm
Height	8.5"	215.9 mm
Weight	18 lbs.	8.2 kg

Length	42"	1066.8 mm
Width	9"	228.60 mm
Height	3"	215.9 mm
Weight	20 lbs.	8.2 kg

RB-1000 UNFOLDED DIMENSIONS

RB-1000 PALLET DIMENSIONS

Length	42"	1066.8 mm
Width	39.5"	1003.3mm
Weight	18 lbs.	8.2 kg
Height	8.25"	209.55 mm

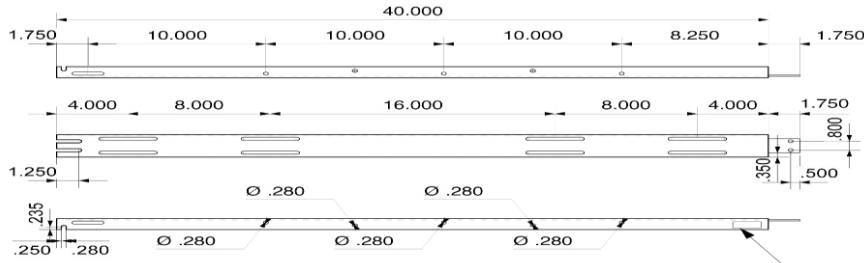
Length	48"	1219.2 mm
Width	40"	1016 mm
Weight	1,200 lbs. (60)	544.31 kg
Height	47.5"	1206.5 mm

RB-1000 DETACHED ANCHOR DIMENSIONS

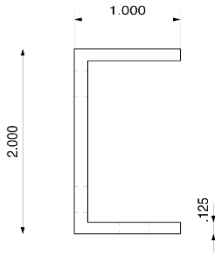
RB-1000 CERTIFICATIONS

Length	42"	1066.8 mm
Width	8.5"	215.9 mm
Weight	18 lbs.	8.2 kg
Height	3 "	76.2 mm

UL MECHANICAL	US & CA 2703	E353639
UL ELECTRICAL	US & CA 2703	E353639
UL FIRE TYPE I	US & CA 2703	E353639
UL FIRE TYPE 2	US & CA 2703	E353639



1 PANEL RAIL EXTENSION



RAIL SECTION



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SPATIAL DIMENSIONS

FINISH

Rafter Spacing	12", 16", 24"		Textured Black Powder Coat	1-3 mm
PV Panel Width	38.66" - 39.37"	982-1000mm		
Panel Thickness	1.22" - 1.73"	31-45 mm		

PLACEMENT

SNOW LOAD/ WIND ZONE CAPACITY

Portrait	YES		24"
Stagger Anchor Bases	YES		Wind Zone 190 mph.
Cantilever up to 16"	YES		Snow Load 120 lbs.

MATERIALS INCLUDED

MATERIALS

Rail Assembly with Panel Clamps	1 unit 2 Panel Clamps	Steel	AR36-GS120	12 Gauge
Anchor Bases/ Feet	4	Aluminum	T6	
Start Brackets with Panel Clamps	2 units 2 Panel Clamps			
Mechanical Flashing	4			
Lag Bolts	4			
Washers	4			
Cross Brace/ Inverter Bolt	2			
Grounding Lug	1			
UV Zip Tie	1			





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PRODUCT DESCRIPTION

Product Description:

The RB-1000 is UL rated 2703; integrated structural & electrical grounding holding one solar panel in portrait position. It is self-aligning, self-squaring, and designed to be installed quickly. The RAQ in A Box technology has" vastly reduced installation times" by a proven factor of 76%(NREL). A patented mounting system that unfolds from a compact shipping state. Providing pre-positioned anchoring hardware and it universal mounts to the majority of 60 or 72 cell Solar Panels, on the market today.

Up to 18, 1 Panel RAQ's can be connected in a single row using only 1 single grounding point when used in conjunction with RAQ in a BOX B. Designed for rafter spacing of 12", 16", 24" without modifications the 1 Panel RAQ is rated for 190mph winds and 120lbs snow loads with roof anchors at 24"

Mechanical Characteristics

Lag bolts provided 5/16 x 4.5 18-8, Stainless Steel 100-- 125,000 psi nominal

Structural Joints

All joining connections points are UL rated for structural, mechanical and electrical; allowing anchor location adjustments in the field.

Integrated Grounding

All connection points are UL rated for grounding. Only one grounding point on the stand- alone unit or on a single row is needed. Grounding lugs are available for purchase in the Start Bracket Kit. The grounding lug provided in the start bracket kit will also enable you to ground to any additional rows, using a 10-gauge copper wire; which will ground the entire unit. When using an inverter that requires grounding please follow manufactures suggestions. A stainless steel "Type 23" self-tapping bolt is provided for each inverter connection point, to mount inverter.

Adjustable Anchor Points

Each anchor of the racking is adjustable in height 1.5" to its connection to the rail to allow for variances in levels of the roof. This allows the installation of a flat array accounting for condition of roof surface

Adjustable leg spacing:

While the anchors of the racking are preset at 24" rafter spacing, they can be adjusted to 12",16" and 24", spacing. Each con nection point of anchor to rail allows a 3" tolerance for rafter misalignment. In the event of a misaligned rafter of greater than 3" the anchor can be removed and a hole can be drilled anywhere in the panel rail with the use of cold-rolled drill bit.

Adjustable panel clamp locations

Mounting position for all the panel clamps, have a 3" range of adjustment for variable width of solar panels. See installation instructions for details.

Adjustable panel spacers

Each panel clamp is adjustable by rotating it 90 degrees, this spacing between panels to be adjusted to compensate for panel width changes

Bifold type cross brace

The Bi-Fold squaring arm requires an additional "Type 23" self- tapping bolt which is provided to secure the unit square

Suggested 3rd party providers of

S5 or common metal roof clamps
Tile roof clamps
OMG Flat roof connections

Suggested to use in conjunction with

The Inverter-BDM-250
The Panel-OPT 280-60-4-100

