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# What are the general specifications for installing solar panels

What are the requirements for installing solar panels?

If you are considering installing solar panels, there are two fundamental requirements that must be met: suitable roof space and a reliable solar power system. In this blog, we will explore the solar installation requirements of two essential components in detail. Let's look into the detail of Requirement for Installing Solar Panel.

What are the components of a solar photovoltaic system installation?

Let's get started! There are the main components of a solar photovoltaic system installation: Solar panels (photovoltaic modules) are the heart of any solar system installation. These panels convert sunlight directly into electricity and are typically made up of a series of interconnected silicon cells.

What are the essential elements of a solar panel installation?

Here's an overview of the essential elements: Solar Panels: Photovoltaic (PV) solar cells are the core components that capture sunlight to convert it into electricity. There are different types of solar panels available on the market so be sure to check which is the best option for your solar panel installation project.

What should a solar panel installation project plan include?

A solar panel installation project plan must meticulously detail compliance with regulations set forth by national electrical codes. This includes proper sizing and installation of conductors, correct use of conduit and wiring methods, and appropriate grounding and bonding procedures.

About the Renewable Energy Ready Home Specifications Assumptions of the RERH Solar Photovoltaic Specification Builder and Specification Limitations

- 1.5 Document the solar resource potential at the designated array location
- 3.3 Install a conduit for the AC wire run from the designated inverter location to the electric service panel
- 4.2 Record the name and Web address of the electric utility service provider

5.1 Landscape Plan

5.2 Placement of non-array roof penetrations and structural building elements

Appendix A: RERH Labeling Guidance

The Renewable Energy Ready Home (RERH) specifications were developed by the U.S. Environmental Protection Agency (EPA) to assist builders in designing and constructing homes equipped with a set of features that make the installation of solar energy systems after the completion of the home's construction easier and less expensive. The specifications... See more on [www.eere.energy.gov](http://www.eere.energy.gov)

`li.b_ans.b_mop.b_mopb, #b_results li.b_ans.b_nonfirststopb {border-radius: 6px; box-shadow: 0 0 1px rgba(0, 0, 0, .05); margin-top: 12px; margin-bottom: 10px; padding: 15px 19px 10px} #b_results li.b_ans.b_mop.b_mopb .b_sideBleed {margin-left: -19px; margin-right: -19px} #b_results .b_vidAns {border-radius: 6px; box-shadow: 0 0 1px rgba(0, 0, 0, .05); padding: 16px 20px; gap: 10px; background: #fff} @charset "UTF-8"; #b_results .b_ans.b_vidAns {box-shadow: none !important; padding: var(--smtc-gap-between-content-medium) 0 !important; background: var(--bing-smtc-background-ctrl-fade-on-image-stop-0)} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc_th, #b_results .b_ans.b_vidAns #serpvidans.vsacf .cico, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc_htb, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhcp, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhtc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhtpc {border-radius: var(--mai-smtc-corner-list-card-nested-default)} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta {margin: 0} #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_channel, #b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_row_channel {color: var(--smtc-foreground-content-neutral-primary)} #serpvidans.vsacf, #serpvidans.vsacf .expctn .expbody, #serpvidans.vsacf .mmlist {display: flex; flex-direction: column; gap: var(--smtc-gap-between-content-`

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medium))#serpvidans.vsacf .cico{height:auto}#serpvidans.vsacf  
.mc\_vtvc\_ban\_lo{top:0;right:auto}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta,#serpvidans.vsacf  
.mmlist .mc\_vtvc .mc\_vtvc\_meta{height:auto;padding:var(--smtc-gap-between-content-xx-small) 0  
var(--smtc-gap-between-content-xx-small) var(--smtc-gap-between-content-medium);display:flex;flex-  
direction:column;justify-content:space-between}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_title,#serpvidans.vsacf .mmlist .mc\_vtvc .mc\_vtvc\_meta .mc\_vtvc\_title{color:var(--smtc-ctrl-link-fo  
reground-brand-rest);font:var(--bing-smtc-text-global-body2);height:auto;display:-webkit-box;-webkit-line-  
clamp:2;-webkit-box-orient:vertical}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_meta\_block\_area,#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_meta\_block,#serpvidans.vsacf .mmlist .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_meta\_block\_area,#serpvidans.vsacf .mmlist .mc\_vtvc .mc\_vtvc\_meta .mc\_vtvc\_meta\_block{displ  
ay:flex;flex-direction:column;gap:var(--smtc-padding-ctrl-text-side)}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc  
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.mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_row,#serpvidans.vsacf .mmlist .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block\_area .mc\_vtvc\_meta\_row,#serpvidans.vsacf .mmlist .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_row{color:var(--smtc-foreground-content-neutral-pri  
mary);height:var(--mai-smtc-padding-card-default);font:var(--bing-smtc-text-global-  
caption1)}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta .mc\_vtvc\_meta\_block\_area  
.mc\_vtvc\_meta\_row .mc\_vtvc\_meta\_row\_channel::before,#serpvidans.vsacf .mc\_cwvc .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_row  
.mc\_vtvc\_meta\_row\_channel::before,#serpvidans.vsacf .mmlist .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_meta\_block\_area .mc\_vtvc\_meta\_row .mc\_vtvc\_meta\_row\_channel::before,#serpvidans.vsacf  
.mmlist .mc\_vtvc .mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_row  
.mc\_vtvc\_meta\_row\_channel::before{content:" . "}#serpvidans.vsacf .mc\_cwvc .mc\_vtvc .mc\_vtvc\_meta  
.mc\_vtvc\_meta\_block\_area .mc\_vtvc\_meta\_pubdate,#serpvidans.vsacf .mc\_cwvc .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_pubdate,#serpvidans.vsacf .mmlist .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block\_area .mc\_vtvc\_meta\_pubdate,#serpvidans.vsacf .mmlist .mc\_vtvc  
.mc\_vtvc\_meta .mc\_vtvc\_meta\_block .mc\_vtvc\_meta\_pubdate{color:var(--bing-smtc-foreground-content-  
neutral-tertiary);padding-bottom:0}.vsacf .mc\_cwvc .mc\_vtvc\_con\_rc,.vsacf .mmlist  
.mc\_vtvc\_con\_rc{display:flex}.vsacf .mc\_cwvc .mc\_vtvc\_con\_rc .mc\_vtvc\_meta\_w,.vsacf .mmlist  
.mc\_vtvc\_con\_rc .mc\_vtvc\_meta\_w{height:auto}.vsacf .b\_title{padding-left:var(--mai-smtc-padding-card-  
default)}.vsacf .b\_title .mmtitle{font:var(--bing-smtc-text-global-subtitle1-strong);margin-bottom:0}.vsacf  
.b\_title .mmtitle a::after{content:"";margin:5px 5px 0 0;border-top:2px solid var(--smtc-foreground-content-  
neutral-primary);border-right:2px solid var(--smtc-foreground-content-neutral-primary);background-size:7px  
7px;width:7px;height:7px;transform:rotate(45deg);display:inline-block;margin-left:4px}#serpvidans.vsacf  
.b\_title .mmtitle{margin-bottom:0}#serpvidans.vsacf .b\_title .mmtitle a{color:var(--smtc-foreground-content-  
neutral-primary)}#serpvidans.vsacf .cardless.mmlist .mc\_vtvc\_con\_rc,#serpvidans.vsacf .cardless.mmlist  
.mc\_vtvc\_th{height:auto}#serpvidans.vsacf .vsb\_tr\_c.va\_tt{margin:0}#serpvidans.vsacf .vtbc  
.mv\_vtvc\_play,#serpvidans.vsacf .vtbc .mv\_vtvc\_play\_ext{position:static}#serpvidans.vsacf .va\_tt  
.mc\_vtvc\_ban\_lo{display:block}#serpvidans.vsacf .mc\_bc{width:auto;border-radius:var(--smtc-ctrl-badge-  
sm-corner);padding:var(--smtc-padding-ctrl-text-side) var(--smtc-gap-between-content-xx-  
small)}#serpvidans.vsacf .rmts .mc\_bc ems{display:none}#serpvidans.vsacf a.vsb\_tr\_t{color:var(--smtc-  
foreground-content-neutral-primary)}.vsacf .va\_tt .vsb\_tr\_chd  
.mc\_vtvc\_th\_dock.rmoverlay{height:36px}.vsacf .va\_tt .vsb\_tr\_chd .mc\_vtvc\_th\_dock{height:92px;backgro  
und:linear-gradient(180deg,var(--bing-smtc-background-ctrl-fade-on-image-stop-0) 0%,var(--mai-smtc-  
background-ctrl-on-image-rest) 100%)}#serpvidans.vsacf .va\_tt a.vsb\_tr\_t{padding:0 20px;font:var(--acf-font-  
title-2-strong)}.vsacf .va\_tt .vsb\_tr\_chd .mc\_vtvc .mc\_vtvc\_meta,.vsacf .va\_tt .vsb\_tr\_chd .mc\_vtvc  
.mc\_vtvc\_title{color:var(--mai-smtc-foreground-ctrl-on-image-rest)}.vsacf span.vcmt\_ctt{font:var(--bing-smtc-  
text-global-caption2);margin:var(--smtc-gap-between-content-xx-small) 0 0;height:16px}#serpvidans.vsacf  
.vsb\_tr\_chd .mc\_vtvc\_tot .mc\_vtvc\_title strong{font-size:14px;line-  
height:20px;display:unset}#serpvidans.vsacf .va\_tt .b\_slrdp .slide:not(:first-child){margin-left:var(--smtc-gap-  
between-content-small)}#serpvidans.vsacf .va\_tt .vsb\_tr\_chd .mc\_vtvc .mc\_vtvc\_title{white-  
space:normal;display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}#serpvidans.vsacf  
.b\_module\_expansion\_control .b\_btnContainer .b\_CompactExpansion{background-color:var(--bing-smtc-b

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ackground-ctrl-neutral-rest);display:flex;justify-content:center;align-items:center;gap:4px;width:fit-
content;height:auto;padding:8px 12px)#serpvidans.vsacf .b_module_expansion_control .b_btnContainer
.b_CompactExpansion .b_CompactExpansionBtnText{font:var(--bing-smtc-text-global-
caption1-strong);color:var(--bing-smtc-foreground-content-brand-rest)}#serpvidans.vsacf
.b_module_expansion_control .b_btnContainer .b_CompactExpansion
.b_arrow{display:flex;margin:0;height:auto)#serpvidans.vsacf .b_module_expansion_control
.b_btnContainer .b_CompactExpansion .b_arrow path#Shape{fill:var(--bing-smtc-foreground-content-brand-
rest)}#serpvidans.vsacf .b_module_expansion_control .b_btnContainer::after{content:"";position:absolute;w
idth:100%;bottom:20px;left:0;height:1px;border-radius:1px;background:var(--smtc-stroke-ctrl-on-neutral-
rest)}#b_results .b_ans.b_vidAns{box-shadow:none;padding:12px 20px 0}#b_results .b_ans.b_vidAns
.vasac{padding:unset;margin:0}#b_results .b_ans.b_vidAns .vsa .b_attribution{padding-
bottom:0}#b_results .b_ans.b_vidAns .cardless .salink{margin:0}#b_results .b_ans.b_vidAns .mmlist
.mc_vtvc{margin-top:10px}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc .mc_vtvc_meta{display:flex;flex-
direction:column;justify-content:space-between;margin:0 10px 4px 12px}#b_results .b_ans.b_vidAns
.mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_channel{color:#111}#b_results .b_ans.b_vidAns .mmlist
.mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_row_channel,#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
.mc_vtvc_meta .mc_vtvc_meta_block_area{color:#666}#b_results .b_ans.b_vidAns .mmlist .mc_vtvc
.mc_vtvc_meta .mc_vtvc_meta_block_area{bottom:0;height:unset}.b_dark .vsa.cardless .mc_vtvc{backgro
und-color:unset}.mmtitle>a{display:block}.mc_fh{height:100%;border-
radius:6px}.mc_tc_bs{overflow:hidden}.mmlist .mc_vtvc .mc_vtvc_meta { padding: 12px 16px 16px 16px; }
.mmlist .mc_vtvc .mc_vtvc_meta_w { height: 112px; margin-top: -0px; } .mmlist .mc_vtvc .mc_vtvc_title {
height: 44px; line-height: 22px; margin-bottom: 0px; margin-top: 0px; } .mmlist .mc_vtvc
.mc_vtvc_meta_block_area { height: 40px; } .mmlist .mc_vtvc .vtmu, .mmlist .mc_vtvc .vtpl { bottom: 120px;
} .mmlist .mc_vtvc .th_dock { height: 112px; } .mmlist .mc_vtvc .th .cico { height: 131px; }
.mc_vtvc{background-color:#fff;box-shadow:0 0 0 1px rgba(0,0,0,.05);line-height:0;margin:0;position:relativ
e;border-radius:6px;overflow:hidden}.mc_vtvc.noshadow{box-shadow:none}.mc_vtvc_con_rc{border-radius
:6px;overflow:hidden;position:relative}.mc_vtvc>a{color:#71777d;display:block;text-
decoration:none;width:100%}.mc_vtvc>a:focus::after{outline:2px solid #00a89d;width:100%;height:100%;c
ontent:"";outline-offset:-2px;position:absolute;top:0;left:0}.mc_vtvc_th{background-
color:#d5d5d5;position:relative}.mc_vtvc_th .cico{border-radius:0}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{positi
on:absolute;vertical-align:middle}.mc_vtvc_ban_lo{bottom:0}.mc_vtvc_ban_up{top:0}.mc_vtvc_title{font-
weight:normal;margin-bottom:11px;overflow:hidden;color:#111;height:54px;line-height:18px}.mc_vtvc_title
a{display:inline-block;color:#111}.mc_vtvc_title a:hover{text-decoration:underline}.mc_vtvc_src_ico{float:left
;margin-right:4px}.mc_vtvc_act{height:16px;margin-top:-40px;padding:12px 8px;z-index:1}.mc_vtvc_actc{ri
ght:16px;bottom:16px;position:absolute;display:inline-block;z-index:1}.mc_vtvc_act_sep{border-top:1px
solid #d5d5d5;height:40px;margin:0 8px}.mc_vtvc_fh .mc_vtvc_act_sep,.mc_vtvc_fh
.mc_vtvc_act{visibility:hidden}#serpvidans .b_topTitle{margin-bottom:8px}.mc_vtvc_htc{width:100%;height:
100%;position:absolute;top:0;bottom:0;left:0;right:0}.mc_vtvc_htb{width:100%;height:100%;background:rgb
a(0,0,0,.7);position:absolute;top:0;bottom:0;left:0;right:0}.mc_vtvc_ht{width:100%;padding:0 16px;line-heigh
t:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-box;vertical-align:middl
e;text-align:center}.mc-vtvc_th_live_b{background-color:#c80000;color:#fff;display:inline-block;padding:2px
8px;font:11px/14px Arial;border-radius:2px;text-
transform:uppercase;height:15px;width:26px;position:absolute;left:8px;top:110px}.isvctrl .isv
.mc_vtvc_ban_up{left:0;right:initial}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{right:0}.vt_text.b_IRight
.b_ILeft{margin:0 0 0 1px;height:14px;line-height:14px;padding:2px 8px;background:rgba(0,0,0,.75);border-
radius:2px;font-weight:bold}.mc_vthtb{width:100%;height:100%;background:rgba(0,0,0,.7);position:absolut
e;top:0;bottom:0;left:0;right:0;display:table}.mc_vtth{width:100%;padding:0 16px;line-height:16px;color:#fff;t
ext-decoration:underline;word-break:break-word;box-sizing:border-box;vertical-align:middle;text-
align:center;display:table-cell}.vt_text.b_IRight .b_ILeft{margin:0 0 0 1px;height:14px;line-
height:14px;padding:2px 8px;background:rgba(0,0,0,.75);border-radius:2px;font-weight:bold}.emptyStyleFo
rDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.mc_vtvc_center_play{width:32px;heig
ht:32px;background-size:contain;position:absolute;margin:auto;bottom:0;top:0;left:0;right:0;box-shadow:no
ne;border-radius:0}.mc_vtvc_center_play.rmvbg{width:32px;height:32px;background-
image:none}.mc_vtvc_htb,.mc_vtvc_ht{display:none}.vt_onhv .mc_vtvc_htb{display:table}.vt_onhv
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gPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.mmsi{height:16px;width:16px;position:relative;to  
p:5px;padding-right:var(--smtc-gap-between-content-xx-small)}.mmsi-microsoftnews,.mmsi-msn{top:3px}.vr  
hdata{display:none}.mmgrid>div{width:197px;display:inline-block;margin-right:8px;margin-bottom:8px;box-  
shadow:0 0 0 1px rgba(0,0,0,.05);position:relative;vertical-align:top;overflow:hidden;white-  
space:normal;border-radius:6px}.vsarr .mmgrid>div,.vsarr1stbig .mmgrid>div{margin-right:8px;margin-  
bottom:8px}#serpvidansrr .mc\_vtvc .mc\_vtvc\_meta{height:auto}#serpvidansrr .mc\_vtvc  
.mc\_vtvc\_title{display:-webkit-box;-webkit-line-clamp:2;-webkit-box-orient:vertical}.mmgrid  
.mc\_tc{border:0}.vsa .mmgrid>div:nth-child(3n){margin-right:0}.vsa .b\_moreLink{padding-  
top:4px}#serpvidansrr .mc\_vtvc\_meta\_row{line-height:18px;font-size:100%;height:17px}.vsarr  
.mmgrid>div:nth-child(2n){margin-right:0}#serpvidansrr .mc\_vtvc .vtmu,#serpvidansrr .mc\_vtvc  
.vtpl{bottom:128px}.vsarr1stbig .mmgrid>div:nth-child(2){margin-right:0}#serpvidansrr.uipolish  
.mc\_vtvc\_meta\_pubdate,#serpvidansrr.uipolish .mc\_vtvc\_meta\_channel,#serpvidansrr.uipolish #vidans2  
.b\_videocard .video\_metadata .video\_source{color:#767676}#serpvidansrr #vidans2 .b\_videocard  
.video\_metadata\_container,#serpvidansrr #vidans2 .b\_videocard .video\_metadata\_container  
.video\_metadata>h3{width:100%}@media(max-width:1362.9px){#serpvidansrr  
.mmgrid>div{width:168px;height:206px}#serpvidansrr .mmgrid>div .cico,#serpvidansrr .mmgrid>div .cico  
.rms\_img{width:168px;height:100px}#serpvidansrr .mc\_vtvc .mc\_vtvc\_meta{padding:12px}#serpvidansrr  
.mc\_vtvc .mc\_vtvc\_title{height:32px;line-height:16px;margin-bottom:16px}#serpvidansrr .mc\_vtvc  
.mc\_vtvc\_meta\_block\_area{height:34px}#serpvidansrr .mc\_vtvc\_meta\_row{line-height:15px;font-  
size:13px;height:15px}#serpvidansrr .mc\_vtvc\_meta\_pubdate{padding-bottom:4px}#serpvidansrr .mc\_vtvc  
.vtmu,#serpvidansrr .mc\_vtvc .vtpl{bottom:114px}#serpvidansrr #vidans2 .b\_videocard  
.videoPlayer,#serpvidansrr #vidans2 .b\_videocard .videoPlayer .cico,#serpvidansrr #vidans2 .b\_videocard  
.videoPlayer .cico .rms\_img{width:343px!important;height:194px!important;margin-right:0}@media(max-  
width:1274.9px){#serpvidansrr .mmgrid>div{width:124px;height:164px}#serpvidansrr .mmgrid>div  
.cico,#serpvidansrr .mmgrid>div .cico .rms\_img{width:124px;height:76px}#serpvidansrr .mc\_vtvc  
.mc\_vtvc\_meta{padding:8px}#serpvidansrr .mc\_vtvc .mc\_vtvc\_title{height:32px;line-height:16px;margin-  
bottom:12px}#serpvidansrr .mc\_vtvc .mc\_vtvc\_meta\_block\_area{height:28px}#serpvidansrr  
.mc\_vtvc\_meta\_row{line-height:13px;font-size:11px;height:13px}#serpvidansrr  
.mc\_vtvc\_meta\_pubdate{padding-bottom:2px}#serpvidansrr .mc\_vtvc .vtmu,#serpvidansrr .mc\_vtvc  
.vtpl{bottom:96px}#serpvidansrr #vidans2 .b\_videocard .videoPlayer,#serpvidansrr #vidans2 .b\_videocard  
.videoPlayer .cico,#serpvidansrr #vidans2 .b\_videocard .videoPlayer .cico  
.rms\_img{width:256px!important;height:144px!important;margin-right:0}#serpvidansrr .maskthumb  
.mc\_bc\_w{padding:8px 4px 4px 8px}#serpvidansrr.withsplitline .mmgrid>div:nth-last-  
child(1),#serpvidansrr.withsplitline .mmgrid>div:nth-last-child(2){margin-  
bottom:24px}#serpvidansrr.withsplitline .mmgrid{border-bottom:1px solid #ececec;margin-  
bottom:16px}#serpvidansrr #vidans2 .b\_videocard .video\_metadata{max-width:auto;padding:12px  
16px}#serpvidansrr #vidans2 .b\_videocard{margin-bottom:12px;box-shadow:0 0 1px rgba(0,0,0,.05),0 2px  
3px rgba(0,0,0,.1);border-radius:6px}#serpvidansrr .b\_rich{padding-top:0}#serpvidansrr #vidans2  
.videoPlayer{border-radius:6px 6px 0 0;overflow:hidden}#serpvidansrr #vidans2 .b\_videocard .video\_meta  
data>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;line-height:15px;he  
ight:15px;font-size:13px;color:#000;margin-bottom:20px;font-family:Arial,Helvetica,Sans-Serif;font-  
style:normal;display:block}#serpvidansrr.vsarr1stbig #vidans2 .b\_videocard .video\_metadata  
.actionmenu{display:none}#serpvidansrr #vidans2 .b\_videocard .video\_summary,#serpvidansrr #vidans2  
.b\_videocard .video\_source{line-height:15px}#serpvidansrr #vidans2 .b\_videocard .videoPlayer  
.vtbc{right:0}.vrhc line.nhvpv .pffvi,.vrhc line.nhvpv[data-tps="S"] .pffvt,.vrhc line.nhvpv[data-tps="M"]  
.pffvt,.vrhc line.nhvpv[data-tps="L"] .pffvt{display:inline-flex}.vrhc line.nhvpv .vrhc.pffv  
.vrhol{display:none}.vrhc line.nhvpv .vrhc.pffv .player\_ol{background:var(--mai-smtc-background-ctrl-on-  
image-hover);transition:background-color .5s;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);gap:var(--smtc-gap-between-content-x-small);box-sizing:border-  
box}.mc\_vtvc\_th img{transition:all .3s ease-out}.nhvpv+.mc\_vtvc\_th  
img{transform:scale(1.1)}.smtplayerhtml5{height:100%;width:100%;overflow:hidden}.smtplayerhtml5  
video{min-height:100%;min-width:100%}.smtplayerhtml5 .videoplaying{background-color:#000}.smtplayerh  
tml5.hide{display:none}.pffvt{display:none;color:var(--mai-smtc-foreground-ctrl-on-image-rest);font:var(--bin  
g-smtc-text-global-subtitle2-strong)}.pffvi{mask:url(/rp/ui07wU6K7FR\_inzG7DRbP1i8fGo.svg) center no-rep

---

eat;mask-size:12px;background:var(--bing-smtc-background-card-on-image-  
default);width:20px;height:20px;flex-shrink:0;align-self:flex-start}[data-tps="L"] .pffvt{font:var(--bing-smtc-  
text-global-subtitle2-strong)}[data-tps="L"] .pffvi{width:22px;height:22px;mask-size:16px}[data-tps="S"]  
.pffvt{font-size:0}[data-tps="S"] .pffvi{width:24px;height:24px;mask-size:24px;align-self:center}.hvpv.h5s  
.pffvt{display:inline-flex}.hvpv.h5s .vrhtc.pffv .vrhol{display:none}.hvpv.h5s .vrhtc.pffv  
.player\_ol{background:var(--mai-smtc-background-ctrl-on-image-hover);transition:background-color .5s;dis-  
play:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);gap:var  
(--smtc-gap-between-content-x-small);box-sizing:border-box}.pffvt{text-decoration:underline}.vrhcp .vrhol{p-  
osition:absolute;width:100%;height:35px;max-  
height:35px;bottom:0;left:0;padding:0;background:none;display:block;z-index:9}.vrhcp .vrhol.hide,.vrhcp  
.vrhol .hide{display:none}.vrhot{white-space:nowrap;text-overflow:ellipsis;overflow:hidden;display:inline-blo-  
ck;position:absolute;max-width:240px;height:18px;line-height:14px;margin-  
left:8px;top:10px;left:0;right:0;border-radius:2px;padding-right:8px}.vrhot div{display:inline-block}.vrhot  
nt{color:#fff;font-size:11px;font-weight:bold;background-color:rgba(0,0,0,.75);padding:2px 8px;margin-  
left:0;top:0;box-sizing:border-box;position:relative}.vrhc .ricons{position:absolute;right:8px;top:10px;left:auto  
;bottom:auto;height:18px;display:inline-block;cursor:pointer}.vrhol.icons\_1 .vrhot{margin-  
right:27px}.vrhol.icons\_2 .vrhot{margin-right:49px}.vrhol.icons\_3 .vrhot{margin-right:79px}.vrhol .vrhot  
nt,.vsb\_tr\_chd .vrhol.icons\_1 .vrhot{margin-  
right:0}.vpb{position:absolute;display:block;bottom:0;left:0;height:4px}.vpb div{position:absolute}.vpb  
nt{width:0;background:#fff}.vpb nt.test{display:none}.vpb.back{background-color:#999}.vrhcp  
.vrhol.npb{height:36px;max-height:36px}.vrhol .vadda{width:22px;height:18px;padding:0;margin-right:0;mar-  
gin-left:2px;bottom:0;position:relative;display:inline-block;z-index:1;background:rgba(0,0,0,.75);border-  
radius:2px;overflow:hidden}.vrhol .vadda.hide{display:none}.vrhol .vadda.mc\_vfaa{margin:3px 5px}.ricons  
.vol{float:left}.ricons .adultFlag{float:right}.vol{width:22px;height:18px;bottom:0;margin-left:1px;margin-  
right:1px;position:relative;display:inline-block}.vol.hide,.vol .hide{display:none}.vol  
.bg{background:rgba(0,0,0,.75);border-radius:2px}.vol.bg,.vol nt{position:absolute;bottom:0}.vol  
.vol.bg.volnb{border-radius:0 0 2px 2px}.vol .volsliderHandle.bg{border-radius:2px 2px 0 0}.vol nt .volslider  
Handle{height:70px;display:none;width:22px;float:left;bottom:18px;position:absolute;display:block}.vol nt  
.volsliderHandle.hide{display:none}.volsliderHandle .vsb{height:54px;width:4px;background-  
color:#999;margin:9px auto 8px;position:relative;display:block;border-radius:2px}.volsliderHandle  
.vsh{height:6px;width:14px;padding:9px 7px 9px 7px;margin:0  
-12px;display:block;position:absolute;top:30px}.volsliderHandle .vsh.hide{display:none}.volsliderHandle .vs  
hi{height:4px;width:14px;background-color:#fff;border-  
radius:2px}.volMuteIcon{width:16px;height:14px;margin:2px 4px;float:left}.volMuteHandle{width:22px;heigh-  
t:18px}.vo{background:url(/rp/fFZxBXEIP9WYOO0jhTaElyLhEVU.svg) no-  
repeat}.vm{background:url(/rp/fsX-ZVd03wB2TL0vmQJxSp4U9vs.svg) no-  
repeat}.vl{background:url(/rp/YXYMPC1Rry\_XJGc7Yg8lR4B2eEs.svg) no-  
repeat}.vf{background:url(/rp/NosrlR4amKTs1zYxWY3laZN3HRk.svg) no-repeat}@media(forced-  
colors:active){.vol{forced-color-adjust:none}}.vrhc line .vt\_vp,.vrhc.popout .vt\_vp,.vrhc.mousefollow  
.vt\_vp{position:absolute;bottom:0;border:hidden;padding:0;top:0;left:0;z-index:3}.vrhtc  
.hide{display:none}.vrh\_clc .vt\_vp,.vrh\_clc .vrhtc .vrhi,.vrh\_clc .player\_ol{cursor:pointer}.vrh\_clc  
.cico{border-radius:0}.vrhtc{border:hidden;top:0;left:0;padding:0}.vrhc.mousefollow .vrhtc,.vrhc.popout  
.vrhtc{background-color:#999}.vrhtpc.load .player\_ol{background:url(/rp/J\_o2maogFDeUOsovPJJL-  
ofEuxJ4.gif) center center no-repeat}.vrhc line .vrhtc .vrhi,.vrhc.popout .vrhtc .vrhi,.vrhc.mousefollow .vrhtc .  
vrhi{position:absolute!important;border:hidden;z-index:2;padding:0;left:0;top:0}.player\_ol{position:absolute;  
width:100%;height:100%;bottom:0;border:hidden;z-index:7}.vrhc.popout,.vrhc line,.vrhc.mousefollow{borde-  
r-radius:6px;overflow:hidden;display:table-row-group;background:none}.vrhc.popout,.vrhc.mousefollow{z-  
index:4;box-shadow:0 4px 4px rgba(0,0,0,.1),0 2px 80px rgba(0,0,0,.2)}.vrhc line{z-  
index:1;margin:0}.vrhc.popout,.vrhc line{position:absolute;top:0}.vrhc.popout{border:1px solid  
#fff}.vrhc.mousefollow{position:fixed}.vrhcp{position:relative;top:0;left:0;display:table-row}.vrhcp  
.vrhtc{position:relative;overflow:hidden}.vrhc.hide{display:none}@keyframes  
vh\_fadein{from{opacity:0}to{opacity:1}}.vrhc.not(.hide){animation:vh\_fadein 250ms}.vrhc line  
img{color:transparent}.vrhc line.fullsize{height:100%}.vrhc,.vrhc.hover,.vrhc.link,.vrhc.active,.vrhc.visited{co-  
lor:#000;text-decoration:none}.vrhc.vrh\_clc{cursor:pointer}a.hover-anchor{display:block;height:100%;width:

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100%;text-decoration:none}.vrhstat{height:0;overflow:hidden}Videos of What Are The General Specifications For Installing ...Watch video on todayshomeowner Complete Solar Panel Installation Guide - Today's Homeownertodayshomeowner 7 viewsNov 15, 2024Watch video on electronicsandyou Solar Panel Installation Guide - Step by Step Processelectronicsandyou 6 months agoWatch video on loomsolar 7 Steps How to Install Solar Panel: Step-by-Step Guideloomsolar 10 viewsJul 30, 2024Watch full video.b\_imgcap\_coll .cicoll{width:180px;height:108px}.b\_imgcap\_coll .b\_imagePair.wide\_m.reverse>ner{width:180px;margin:2px -190px 0 0;padding-bottom:0}.b\_imgcap\_coll .b\_imagePair.wide\_m.reverse{padding-right:190px}.b\_imgcap\_coll .b\_imgcap\_img ll\_OnePortrait a{display:inline-flex} ll\_OnePortrait a:nth-of-type(1) img{border-radius:6px 0 0 6px} ll\_OnePortrait a:nth-of-type(2){margin:0 0 0 2px;position:absolute} ll\_OnePortrait a:nth-of-type(2) img{border-radius:0 6px 0 0} ll\_OnePortrait a:nth-of-type(3){position:absolute;margin:55px 0 0 2px} ll\_OnePortrait a:nth-of-type(3) img{border-radius:0 0 6px 0}renovablesverdes Technical guide for interpreting and installing solar panelsLearn how to interpret a solar panel's data sheet and optimize your installation. Discover the essential parameters in this ...

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