

How big a controller should I use for a 24v solar panel

A 10A PWM charge controller can support a 120 W solar array to charge a 12 V battery bank ($120\text{W}/12\text{V} = 10\text{A}$) or it can support a 240 W solar array to charge a 24 V battery bank ($240\text{W}/24\text{V} = 10\text{A}$).

Choosing the right size charge controller is crucial for the overall efficiency of your system. In this article, we will discuss the factors to consider when choosing the size of an MPPT charge controller and how ...

Below is a table showing which size of charge controller you should get based on the power rating and the number of solar panels in your array. For example, if you have two solar panels creating up to ...

PWM controllers tie the array to roughly the battery voltage. They are simple and affordable, and they make sense for small 12 or 24-volt systems where panel voltage closely matches battery voltage.

Many brands offer 40A controllers as a standard choice for this setup. A 24V battery system needs less current for the same 400 watt solar panel. You use the same formula: You add a 25% safety margin to this number. ...

Using a PWM controller might work for a minimal setup, but a Smart Solar MPPT is the better choice for optimized solar energy. Sizing is all about matching your solar panel wattage, battery voltage, and expected ...

What Type and Size Charge Controller to Select
Select Correct Mppt Amp
Typical Mppt Amperage Sizes
Large solar arrays can generate power, but the MPPT controller will limit the output. It would be inefficient to have panels delivering 80 A of current to an MPPT controller with a 40 A output current rating. In this example, it would be better to have two 40 A MPPT controllers controlling the 80 A input current from the solar panels. The input vol...
See more on solvoltaics
#b_results .b_vidAns{border-radius:6px;box-shadow:0 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 #serpvidans.vsacf .mc_vtvc,#b_results #serpvidans.vsacf .mc_vtvc_th,#b_results #serpvidans.vsacf .cico,#b_results #serpvidans.vsacf .mc_vtvc_htb,#b_results #serpvidans.vsacf .vrhc,#b_results #serpvidans.vsacf .vrhcp,#b_results #serpvidans.vsacf .vrhtc,#b_results #serpvidans.vsacf .vrhtpc{border-radius:var(--mai-smtc-corner-list-card-default)}#b_results #serpvidans.vsacf .mmlist .mc_vtvc,#b_results #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta{margin:0}#b_results #serpvidans.vsacf .mmlist .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_channel,#b_results #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-medium)}#serpvidans.vsacf

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.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-foreground-brand-rest);font:var(--bing-smtc-text-global-body2);heig
ht: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{display:flex;flex-direction:column;gap:var(--smtc-padding-ctrl-text-side)}#serpvidans.
vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_meta_block_area .mc_vtvc_meta_row,#serpvidans.vsacf
.mc_cwvc .mc_vtvc .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
.mc_vtvc_meta_row{color:var(--smtc-foreground-content-neutral-primary);height:var(--mai-smtc-padding-car
d-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:0}.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
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.mc_cwvc{width:100%;margin-bottom:var(--smtc-gap-between-content-x-small)}#serpvidans.vsacf
.mc_cwvc      .mc_vtvc{box-shadow:none}#serpvidans.vsacf      .mc_cwvc      .mc_vtvc
.mc_vtvc_meta{height:100%;padding:var(--smtc-gap-between-content-x-small)      0
var(--smtc-gap-between-content-x-small)
var(--mai-smtc-padding-card-default);background:var(--bing-smtc-background-ctrl-fade-on-image-stop-0)}#s
erpvidans.vsacf      .mc_cwvc      .mc_vtvc      .mc_vtvc_meta
.mc_vtvc_title{font:var(--bing-smtc-text-global-body1)}#serpvidans.vsacf      .cardless.mmllist
.mc_vtvc_con_rc,#serpvidans.vsacf      .cardless.mmllist      .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.rmoveoverlay{height:36px}.vsacf      .va_tt      .vsb_tr_chd
.mc_vtvc_th_dock{height:92px;background:linear-gradient(180deg,var(--bing-smtc-background-ctrl-fade-on-i
mage-stop-0) 0%,var(--mai-smtc-background-ctrl-on-image-rest) 100%)}#serpvidans.vsacf .va_tt a.vsb_tr_t{padding:0
0;font:var(--bing-smtc-text-global-body-2-alt-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_ckt{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}#se
rpvidans.vsacf      .b_module_expansion_control      .b_btnContainer
.b_CompactExpansion{background-color:var(--bing-smtc-background-ctrl-neutral-rest);display:flex;justify-co
ntent: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-foregr
ound-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;width: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
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.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{background-color:unset}.mmtitle>a{display:block}.mc_fh{height:100%;border-radius:6px}.mc_tc_
bs{overflow:hidden}#mc_cwvc_1770651726264 { width:356px; max-width: 100%; } .mc_vtvc
.mc_vtvc_meta { padding: 16px 16px 16px 16px; } .mc_vtvc.mc_vtvc_meta_w { height: 139px; margin-top:
-0px; } .mc_vtvc.mc_vtvc_title { height: 54px; line-height: 18px; margin-bottom: 18px; margin-top: 0px; }
.mc_vtvc.mc_vtvc_meta_block_area { height: 35px; } .mc_vtvc.vtmu,.mc_vtvc.vtpl { bottom: 147px; }
.mc_vtvc_th_dock { height: 139px; } .mc_vtvc_th.cico { height: 200px; }
.mc_vtvc{background-color:#fff;box-shadow:0      0      0      1px
rgba(0,0,0,.05);line-height:0;margin:0;position:relative;border-radius:6px;overflow:hidden}.mc_vtvc.noshado
w{box-shadow:none}.mc_vtvc_con_rc{border-radius:6px;overflow:hidden;position:relative}.mc_vtvc>a{colo
r:#71777d;display:block;text-decoration:none;width:100%}.mc_vtvc>a:focus::after{outline:2px      solid
#00a89d;width:100%;height:100%;content:"";outline-offset:-2px;position:absolute;top:0;left:0}.mc_vtvc_th{ba
ckground-color:#d5d5d5;position:relative}.mc_vtvc_th
.cico{border-radius:0}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{position: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;m
argin-top:-40px;padding:12px
8px;z-index:1}.mc_vtvc_actc{right:16px;bottom:16px;position:absolute;display:inline-block;z-index:1}.mc_v
tvc_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}#serpvians
.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:rgba(0,0,0,.7);position:absolute;top:0;bottom:
0;left:0;right:0}.mc_vtvc_ht{width:100%;padding:0
16px;line-height:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-box;vert
ical-align:middle;text-align:center}.mc_vtvc_th_live_b{background-color:#c80000;color:#fff;display:inline-bl
ock;padding:2px      8px;font:11px/14px
Arial;border-radius:2px;text-transform:uppercase;height:15px;width:26px;position:absolute;left:8px;top:110p
x}.isvctrl      .isv
.mc_vtvc_ban_up{left:0;right:initial}.mc_vtvc_ban_lo,.mc_vtvc_ban_up{right:0}.vt_text.b_lRight
.b_lLeft{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%;bac
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background:rgba(0,0,0,.7);position:absolute;top:0;bottom:0;left:0;right:0;display:table}.mc_vtth{width:100%;padding:0
16px;line-height:16px;color:#fff;text-decoration:underline;word-break:break-word;box-sizing:border-box;vertical-align:middle;text-align:center;display:table-cell}.vt_text.b_lRight .b_lLeft{margin:0 0 0 0
1px;height:14px;line-height:14px;padding:2px
8px;background:rgba(0,0,0,.75);border-radius:2px;font-weight:bold}.emptyStyleForDebuggingPurpose{top:0
}.emptyStyleForDebuggingPurpose{top:0}.mc_vtvc_center_play{width:32px;height:32px;background-size:cover;position:absolute;margin:auto;bottom:0;top:0;left:0;right:0;box-shadow:none;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 .mc_vtvc_ht{display:table-cell}.mc_vtvc_center_play{display:inline-block}.vt_onhv .mc_vtvc_center_play{display:none}.mc_vtvc .vtmu,.mc_vtvc .vtpl{bottom:163px}.vsarf .mc_vtvc .vtmu,.vsarf .mc_vtvc .vtpl{bottom:122px}.svarh #mmcar .mc_vtvc .vtmu,.svarh #mmcar .mc_vtvc .vtpl{bottom:137px}.svarht #mmcar .mc_vtvc .vtmu,.svarht #mmcar .mc_vtvc .vtpl{top:8px;left:8px}.mc_vtvc_center_play{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2232%22%20height%3D%2232%22%20viewBox%3D%220%200%2032%2032%22%20fill%3D%22none%22%20xmlns%3D%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%20%20%20%20%3Crrect%20width%3D%2232%22%20height%3D%2232%22%20rx%3D%2216%22%20fill%3D%22black%22%20fill-opacity%3D%220.6%22%2F%3E%0D%0A%20%20%20%20%3Cpath%20d%3D%22M14.2354%2010.1923C13.2355%209.62986%2012%2010.3524%2012%2011.4997V20.5C12%2021.6472%2013.2355%2022.3698%2014.2354%2021.8073L22.2356%2017.3073C23.2551%2016.7339%2023.2551%2015.2661%2022.2357%2014.6926L14.2354%2010.1923Z%22%20fill%3D%22white%22%20fill-opacity%3D%220.9%22%2F%3E%0D%0A%3C%2Fsvg%3E)}}.mc_vtvc_meta{box-sizing:border-box;display:inline-block;line-height:18px;position:relative;width:100%}.mc_vtvc_meta_block{bottom:0;position:absolute;width:100%}.mc_vtvc_meta_row{line-height:16px;font-size:11px;height:17px;overflow:hidden;text-overflow:ellipsis;white-space:nowrap}.mc_vtvc_meta_row a{display:inline-block}.mc_vtvc_meta_row a:hover{text-decoration:underline}.mc_vtvc_meta_block_area{position:relative}.mc_vtvc_meta_block,.mc_vtvc_meta_block a{color:#444}.b_dark .mc_vtvc_meta_block{color:#edebe9}.mc_vtvc_meta_row>:nth-of-type(n+2)::before{content:">"}.mc_vtvc_meta_row .mc_vtvc_meta_row_channel::before{content:">"}.mc_vtvc_kmt_title{line-height:18px;padding-bottom:4px;font-weight:bold;color:#00809d;text-transform:uppercase;font-size:11px}.mc_vtvc_kmt,.mc_vtvc_con_rc.onhov .wkmt .mc_vtvc_meta_row,.mc_vtvc_con_rc.onhov .wkmt .tbc_tt{display:none}.mc_vtvc_con_rc.onhov .wkmt .mc_vtvc_title{max-height:18px;margin-bottom:18px;overflow:hidden}.mc_vtvc_con_rc.onhov.mmsts .mc_vtvc_title{visibility:hidden}.mc_vtvc_con_rc.onhov .mc_vtvc_kmt{display:block}.mc_vtvc_kmt_content .b_factrow{line-height:17px;font-size:11px;max-height:34px;overflow:hidden;text-overflow:ellipsis;padding:0 16px 0 0;color:#444}.mc_vtvc_meta .mc_vtvc_kmt_title{line-height:18px}.mc_vtvc_title:hover{text-decoration:none}.mc_vtvc_meta_pubdate{color:#444;padding-bottom:3px}.mc_vtvc_meta_channel{color:#444}.mc_vtvc_meta_w,.mc_vplvc_meta_w{po

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sition:relative}.mc_vtvc_meta_bg_w,.mc_vplvc_meta_bg_w{height:100%;width:100%;overflow:hidden;posit
ion:absolute;top:0}.mc_vtvc_meta_bg_w.cico,.mc_vplvc_meta_bg_w
.cico{border-radius:0;overflow:visible}.dg_u .mm_vidch_th_c{overflow:visible}.dg_u .mm_vidch_th_bg
img{margin-top:-20px}.emptyStyleForDebuggingPurpose{top:0}.mc_vtvc_meta_w
.mc_vtvc_meta{background:rgba(255,255,255,.75)}.mc_vtvc_meta_bg_w img,.mc_vtvc_meta_bg_w
.mc_vtvc_cb_w{filter:blur(25px);transform:scale(1.2)}body{--video-metadata-channel-color:#3c3c3c}body.b
_dark{--video-metadata-channel-color:unset}.vsarf .mc_vtvc_meta_pubdate{color:unset}.vsarf
.mc_vtvc_meta_channel{color:var(--video-metadata-channel-color)}.vsarf .mc_vtvc .mc_vtvc_meta_w
.mc_vtvc_title,.vsarf .mc_vtvc .mc_vtvc_meta_w .mc_vtvc_title strong{font-weight:bold}.vsarf
.mc_vtvc_meta_w .mc_vtvc_meta_row{font-size:13px}.emptyStyleForDebuggingPurpose{top:0}.vsarf
.mc_vtvc_th
.cico{height:132px}.emptyStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.empt
yStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurp
ose{top:0}.emptyStyleForDebuggingPurpose{top:0}.emptyStyleForDebuggingPurpose{top:0}.vtbc
.mv_vtvc_play{display:inline-block;position:absolute;bottom:8px;left:9px;height:8px;width:7px}.vtbc
.mv_vtvc_play_ext{background:url(/rp/Lp38sn_O4jegSK0IHxZVxyp-yKQ.png) -172px
-31px;display:inline-block;height:8px;width:12px;position:absolute;bottom:8px;left:6px}.vtbc
.pivot{height:20px;width:8px;min-width:8px}.vtbc
.mv_vtvc_play{background:url(
MAAADHKvg1AAAAIvBMVEX//////////9/gMdvAAAACnRSTlMAETNEVWAlmbv
uo4D1oAAAAB9JREFUCB1jmMoABKuaQcSqQhCxKgFGgLhNQIkpQAwA8zkLyQA16F0AAAAASUVO
RK5CYII=)}.mc_bc_w{height:18px;padding:8px;text-align:right}.mc_bc{background-color:rgba(0,0,0,.75);p
adding:2px
8px;line-height:14px;color:#fff;display:inline-block;vertical-align:middle;border-radius:2px;font-weight:bold}
.mc_bc_w .pivot{text-align:center;margin-right:1px;height:14px}.vsarr .mmgrid .mc_bc_w
.mc_bc{background-color:rgba(0,0,0,.75);opacity:1}.mmsi{height:16px;width:16px;position:relative;top:5px;
padding-right:var(--smtc-gap-between-content-xx-small)}.mmsi-microsoftnews,.mmsi-msn{top:3px}.vrhdata
{display:none}.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 .vrhtc.pffv
.vrhol{display:none}.vrhc line.nhvpv .vrhtc.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);ga
p: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}.smtplayerhtml5.hide{display:none}.pffvt{display:none;color:var(--ma
i-smtc-foreground-ctrl-on-image-rest);font:var(--bing-smtc-text-global-subtitle2-strong)}.pffvi{mask:url(/rp/ui
07wU6K7FR_inzG7DRbP1i8fGo.svg) center
no-repeat;mask-size:12px;background:var(--bing-smtc-background-card-on-image-default);width:20px;height

```

How big a controller should I use for a 24v solar panel

```

: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;display:flex;align-items:center;justify-content:center;padding:var(--smtc-gap-between-content-x-small);ga
p:var(--smtc-gap-between-content-x-small);box-sizing:border-box}.pffvt{text-decoration:underline}.vrhcp
.vrhol{position:absolute;width:100%;height:35px;max-height:35px;bottom:0;left:0;padding:0;background:non
e;display:block;z-index:9}.vrhcp .vrhol.hide,.vrhcp .vrhol
.hide{display:none}.vrhot{white-space:nowrap;text-overflow:ellipsis;overflow:hidden;display:inline-block;po
sition: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:poi
nter}.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;margin-left:2px;bottom:0;position:relative;display:i
nline-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:relati
ve;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
.volsliderHandle{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
.vshi{height:4px;width:14px;background-color:#fff;border-radius:2px}.volMuteIcon{width:16px;height:14px;
margin:2px
4px;float:left}.volMuteHandle{width:22px;height:18px}.vo{background:url(/rp/fFZxBXEIP9WYOO0jhTaEl
yLhEVU.svg) no-repeat}.vm{background:url(/rp/fsX-ZVd03wB2TL0vmQJxSp4U9vs.svg)
no-repeat}.vl{background:url(/rp/YXYMPC1Rry_XJGc7Yg8lR4B2eEs.svg)

```

How big a controller should I use for a 24v solar panel

```

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_o2maogFDeUOsovPjL-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{border-radius:6px;overflow:hidden;display:table-row-group;background:none}.vrhc.p
opout,.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{color:#000;text-decoration:no
ne}.vrhc.vrh_clc{cursor:pointer}a.hover-anchor{display:block;height:100%;width:100%;text-decoration:none
}.vrhstat{height:0;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; } .mmlist
.mc_vtvc{margin:10px    1px    0}.mmlist    .mc_vtvc_con_rc{display:flex}.cardless    .mmlist
.mc_vtvc_con_rc{height:112px}.mmlist    .mc_vtvc
.mc_vtvc_meta{display:flex;flex-direction:column;justify-content:space-between;margin:0    10px    4px
12px;padding:0}.mmlist
.mc_vtvc_title{font-weight:400;font-size:16px;height:44px;line-height:22px;margin-bottom:0;margin-top:0;c
olor:unset}.mmlist    .mc_vtvc_meta_row{font-size:13px}.mmlist    .mc_vtvc
.mc_vtvc_meta_block_area{height:unset}.mmlist    .mc_vtvc    .vtmu,.mmlist    .mc_vtvc
.vtpl{bottom:8px}.cardless    .mmlist    .mc_vtvc{box-shadow:none}.cardless.mmlist
.mc_vtvc_center_play{width:32px;height:32px}.cardless.mmlist
.mc_vtvc_title{font-size:16px;color:unset}.cardless.mmlist
.mc_vtvc_meta_row{line-height:20px}.cardless.mmlist
.mc_vtvc_meta_pubdate{padding-bottom:2px;color:#666}.cardless.mmlist    .mc_vtvc_th,.cardless.mmlist
.mc_vtvc_th    .cico,.cardless.mmlist    .mc_vtvc_th    div.rms_img{border-radius:6px}.cardless.mmlist
.mc_vtvc_th{height:111px}.cardless.mmlist
.mc_vtvc_htc{border-radius:6px;overflow:hidden}#serpvidans.vasac.cardless{box-shadow:none}.cardless.m

```


How big a controller should I use for a 24v solar panel

```

mlist      .mc_bc{padding:2px      8px;line-height:14px;border-radius:2px;font-weight:normal}.mmlist
.mc_vtvc:hover
.mc_vtvc_title{text-decoration:underline}.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}.vs
arr .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){#s
erpvidansrr .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 #ecec;#ecec;margin-bottom:16px}#serpvidansrr #vidans2 .b_videocard

```

How big a controller should I use for a 24v solar panel

```
.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_metadata>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;line-height:15px;
height: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}Videos of How Big a Controller Should I Use For a 24V Solar PanelWatch video8:47How To Properly Size A Solar Charge Controller For An Off Grid Solar Power System Off Grid Stores106.6K viewsNov 28, 2022Watch full videoWatch video8:44How to Size a Solar Charge Controller Cleversolarpower by Nick222.4K viewsFeb 2, 2024Watch video12:28How to Use Solar Charge Controller (PWM Controller, Wiring, 12v/24v Setup, Optimiztion parameters) Just Botond43.4K viewsJun 24, 2024Watch video7:13Choosing the right solar controllers The Todd & Tony Show6.2K views8 months agoWatch full video.product-card-container{margin:0 -20px;position:relative;display:block}.product-card-container
.cmuipcm-content-cntr__base-info{min-height:unset}.product-card-container
merce-ui-image-wrapper__image-container .cico img{vertical-align:middle}.product-card-container
.cmuipcm-meta-data.cmuipcm-meta-data--hoverable{display:none}#b_results
.shoppingCollageAcfCarouselCard,#b_results
.shoppingCollageAcfGridCard{width:100%;height:auto}.big-height-product-card-container.shpclg-art
.product-card-content .cmuipcm-content-cntr__title{-webkit-line-clamp:2}.shpclg-art .product-card-content
.cmuipcm-content-cntr__title{-webkit-line-clamp:1}.product-card-hoverable-template{display:none}.shop-image-collage{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:flex;-webkit-box-pack:justify;-ms-flex-pack:justify;justify-content:space-between;-webkit-box-align:stretch;-ms-flex-align:stretch;align-items:stretch}.shop-image-collage+.shop-image-collage{margin-top:16px}.product-card-content,.product-card-content .product-card-normal,.product-card-content .product-card-normal
merce-ui-product-card-medium__target-link{height:100%}.products-wrapper-slide{position:relative;min-height:200px}.products-wrapper-slide .b_overlay
.btn{height:48px;width:36px;top:50%;margin-top:-24px}.products-wrapper-slide .b_overlay .btn
.bg{background-color:unset;opacity:0}.products-wrapper-slide .b_overlay
.btn.acfdefaultchev.next{right:-18px!important}.products-wrapper-slide .b_overlay
.btn.acfdefaultchev.prev{left:-18px!important}.products-wrapper-slide
.slide{box-shadow:none!important;height:100%}.product-card-normal:focus,.product-card-normal:focus-visible{border-radius:16px} merce-ui-product-card-medium .cmuipcm-content-cntr .cmuipc-seller
.cico{border-radius:3px}.b_dark .products-wrapper-slide .b_slidebar .slide,.b_drk .products-wrapper-slide
.b_slidebar .slide{background-color:unset!important}body>
-product-card-hoverable-overlay{position:absolute;z-index:4;pointer-events:auto;opacity:0;overflow:visible;transition:opacity .15s ease-in-out}body>
-product-card-hoverable-overlay.hoverable-visible{opacity:1}body>
-product-card-hoverable-overlay merce-ui-product-card-medium__target-link{min-height:100%}#bpage
```

How big a controller should I use for a 24v solar panel

```
.products-wrapper-slide .b_sidebar{padding-left:16px;padding-right:16px}#b_results
.product-card-container{margin:0}.b_acf_card{box-sizing:border-box;border-radius:var(--mai-smtc-corner-ca
rd-default);-webkit-user-select:none;user-select:none;position:relative;width:100%;height:100%}.b_acf_card.
b_acf_bckgnd{background:var(--bing-smtc-background-card-on-primary-alt-rest)}.b_acf_card_link{border-ra
dius:var(--mai-smtc-corner-card-default);outline-offset:-1px;position:absolute;width:100%;height:100%}.b_ac
f_card_link:hover{text-decoration:unset}.acf_col1_4{width:140px}.acf_col1_6{width:160px}@media(forced
-colors:active){.b_acf_card_link{background-color:unset}.b_acf_card[link]
.acf_t_c_title{color:LinkText!important}}.acf_col1{width:88px}.acf_col2{width:200px}.acf_col3{width:312
px}.acf_col4{width:424px}.acf_col5{width:536px}.acf_col6{width:648px}.acf_col7{width:760px}.acf_col8
{width:872px}.acf_col9{width:984px}.acf_col10{width:1096px}.acf_col11{width:1208px}.acf_col12{width:
1320px}.acf_row1{height:88px}.acf_row2{height:200px}.acf_row3{height:312px}.acf_row4{height:424px}.
acf_row5{height:536px}.acf_row6{height:648px}.acf_row7{height:760px}.acf_row8{height:872px}.acf_row
9{height:984px}.acf_row10{height:1096px}.acf_row11{height:1208px}.acf_row12{height:1320px}.b_overla
y
.btn{height:100%;position:absolute;width:20px;cursor:pointer;z-index:1;-moz-user-select:none;-khtml-user-se
lect:none;-webkit-user-select:none;-o-user-select:none;-ms-user-select:none;user-select:none}.b_overlay .btn
*{transition:opacity .3s linear}.b_overlay .btn
.bg{position:absolute;width:100%;height:100%;background-color:#444;opacity:.3;filter:alpha(opacity=30)}.b
_overlay .btn.nobg .bg{background-color:transparent}.b_overlay .btn.hover
.bg{opacity:.7;filter:alpha(opacity=70)}.b_overlay .btn.nohover:hover
.bg{opacity:.3;filter:alpha(opacity=30)}.b_overlay .btn.disabled .bg,.b_overlay .btn.nohover.disabled
.bg{opacity:.01;filter:alpha(opacity=1)}.b_overlay .btn.hidden .bg,.b_overlay .btn.nohover.hidden
.bg{opacity:.01;filter:alpha(opacity=1)}.b_overlay .btn.disabled,.b_overlay
.btn.hidden{cursor:default}.b_overlay .btn .cr{text-align:center;line-height:0}.b_overlay
.btn.bld.polecarchev.hidden .cr,.b_overlay .btn.bld.polecarchev.disabled .cr,.b_overlay
.btn.bld.rounded.hidden .cr,.b_overlay .btn.bld.rounded.disabled .cr,.b_overlay .btn.bld.bigrounded.hidden
.cr,.b_overlay .btn.bld.bigrounded.disabled .cr{opacity:.01;visibility:unset}.b_overlay .btn.hidden
.cr,.b_overlay .btn.disabled .cr{visibility:hidden}.b_overlay .btn.prev.ltr .cr,.b_overlay .btn.next.rtl
.cr{transform:scaleX(-1)}.b_overlay .btn.next{right:0}.b_overlay .btn .cr>div{background-size:40px
200px;background-repeat:no-repeat;width:20px;height:40px;background-position:-10px 0}.b_overlay .btn
.cr>div{background-image:url(/rp/S9IIHAMBy7JxaR5m1KRvMwDswyw.png)}.b_overlay
.acfdefaultchev.btn.next{right:0!important}.b_overlay .acfdefaultchev.btn.prev{left:0!important}.b_overlay
.acfdefaultchev.btn:hover .bg{opacity:unset;filter:unset}.b_overlay .acfdefaultchev.btn.disabled,.b_overlay
.acfdefaultchev.btn.hidden{display:none}.b_overlay .acfdefaultchev.btn{width:48px}.b_overlay
.acfdefaultchev.btn .bg{opacity:unset}.b_overlay .acfdefaultchev.btn.prev .cr{left:0}.b_overlay
.acfdefaultchev.btn.next .cr{right:0}.acfdefaultchev
.cr{display:flex;justify-content:center;align-items:center;flex:1 0
0;align-self:stretch;width:36px;height:48px;position:absolute;margin:unset;opacity:unset;transition:unset;bord
er-radius:var(--smtc-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:var(-
-smtc-shadows-floating-action-button-rest);fill:var(--smtc-foreground-content-neutral-secondary)}.acfdefaultc
```

How big a controller should I use for a 24v solar panel

```

hev
.cr:hover{background:var(--smtc-ctrl-fab-background-hover)}.acfdefaultchev
.cr:active{background:var(--smtc-ctrl-fab-background-pressed)}.b_ofchev
.cr{left:-18px}.b_ofchev
.cr{right:-18px}@media(forced-colors:active){.acfdefaultchev
.cr>svg{fill:ButtonText}.acfdefaultchev
.cr:has(:focus-visible){background:Highlight}}.b_overlay
.btn.bld.next{right:-20px}[background="alpha-white"]{background-color:rgba(255,255,255,.8)}[background=
"rest-blue"]{background-color:#eff4fa}.b_dark
[background="alpha-white"]{background-color:rgba(38,38,38,.8)}.b_dark
[background="rest-blue"]{background-color:#292c33}
merce-ui-product-card-medium{display:flex;flex-direction:column;width:100%;max-width:360px;border-radi
us:var(--mai-smtc-corner-card-default)}
merce-ui-product-card-medium__target-link{display:flex;flex-direction:column;color:inherit;text-decoration:n
one}
merce-ui-product-card-medium__target-link:focus{text-decoration:none}
merce-ui-product-card-medium--hoverable{position:relative;padding:8px}
merce-ui-product-card-medium--hoverable::before{content:"";position:absolute;top:0;left:0;right:0;bottom:0;b
ackground-color:transparent;transform:scale(.93) translateZ(0);transform-origin:center;transition:transform
.16s cubic-bezier(.4,0,.2,1),background-color 0s cubic-bezier(.4,0,.2,1)
.16s;z-index:0;border-radius:var(--mai-smtc-corner-card-default);will-change:transform;background-color;bac
kface-visibility:hidden}
merce-ui-product-card-medium--hoverable:active::before{background-color:var(--bing-smtc-background-card
-on-primary-alt-pressed)}
merce-ui-product-card-medium--hoverable>div{position:relative;z-index:1}
merce-ui-product-card-medium--hoverable
.cmuipcm-content-cntr__title{transform:translateZ(0);backface-visibility:hidden;transition-property:max-heig
ht;transition-duration:.16s;transition-timing-function:cubic-bezier(.4,0,.2,1);will-change:max-height;overflow:
hidden;-webkit-font-smoothing:antialiased;-moz-osx-font-smoothing:grayscale}
merce-ui-product-card-medium--hoverable
.cmuipcm-content-cntr__hashtags{transform:translateZ(0);backface-visibility:hidden;transition-property:max-
height,opacity;transition-duration:.16s;transition-timing-function:cubic-bezier(.4,0,.2,1);will-change:max-heig
ht,opacity;overflow:hidden}
merce-ui-product-card-medium--hoverable
.cmuipcm-image-cntr,
merce-ui-product-card-medium--hoverable
merce-ui-image-wrapper,
merce-ui-product-card-medium--hoverable
merce-ui-image-wrapper__image-container
.cico{transform:translateZ(0);backface-visibility:hidden;transition-property:border-radius;transition-duration:.
16s;transition-timing-function:cubic-bezier(.4,0,.2,1);will-change:border-radius;overflow:hidden;-webkit-font-
smoothing:antialiased;-moz-osx-font-smoothing:grayscale}
merce-ui-product-card-medium--hoverable
.cmuipcm-meta-data{transform:translateZ(0);transition-property:max-height,opacity;transition-duration:.16s;tr

```

How big a controller should I use for a 24v solar panel

```

transition-timing-function:cubic-bezier(.4,0,.2,1);opacity:0;will-change:max-height,opacity;overflow:hidden}
merce-ui-product-card-medium--hoverable:hover .cmuipcm-image-cntr--zoom .cico{transform:scale(1.1)}
merce-ui-product-card-medium--hoverable:hover .cmuipcm-image-cntr,
merce-ui-product-card-medium--hoverable:hover merce-ui-image-wrapper,
merce-ui-product-card-medium--hoverable:hover merce-ui-image-wrapper__image-container
.cico{border-radius:var(--smtc-corner-ctrl-hover)}
merce-ui-product-card-medium--hoverable.line-clamp-expanded
.cmuipcm-content-cntr__hashtags{max-height:24px;opacity:1;margin-top:0}
merce-ui-product-card-medium--hoverable.line-clamp-expanded
.cmuipcm-content-cntr__title{max-height:66px;transform:translateZ(0)}
merce-ui-product-card-medium--hoverable.line-clamp-expanded .cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data.cmuipcm-meta-data--one~.cmuipcm-meta-data.cmuipcm-meta-data--one,
merce-ui-product-card-medium--hoverable.line-clamp-expanded .cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data.cmuipcm-meta-data--hoverable,
merce-ui-product-card-medium--hoverable.line-clamp-expanded .cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data.cmuipcm-meta-data--one,
merce-ui-product-card-medium--hoverable.line-clamp-expanded .cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data{max-height:20px;opacity:1;margin-top:0}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-content-cntr__title{max-height:44px}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-content-cntr__title[data-rows="1"]{-webkit-line-clamp:1;max-height:22px}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-content-cntr__title[data-rows="2"]{-webkit-line-clamp:2}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-content-cntr__title[data-rows="3"]{-webkit-line-clamp:3;max-height:66px}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-meta-data.cmuipcm-meta-data--hoverable{max-height:0;opacity:0;margin-top:-2px}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-meta-data.cmuipcm-meta-data--one{max-height:20px;opacity:1;margin-top:0}
merce-ui-product-card-medium--hoverable:not(.line-clamp-expanded)
.cmuipcm-meta-data.cmuipcm-meta-data--one~.cmuipcm-meta-data.cmuipcm-meta-data--one{max-height:0;opacity:0;margin-top:-2px}.cmuipcm-image-cntr{display:flex;position:relative;overflow:hidden;border-radius:
var(--mai-smtc-corner-card-default)}.cmuipcm-image-cntr
merce-ui-image-wrapper{height:100%;width:100%;border-radius:var(--mai-smtc-corner-card-default)}.cmuip
cm-image-cntr merce-ui-image-wrapper__image-container
.cico{background:#fafafa;border-radius:var(--mai-smtc-corner-card-default);transition:transform .16s
ease}.cmuipcm-image-cntr merce-ui-image-wrapper__image-container .cico
img{mix-blend-mode:multiply}@media(forced-colors:active){.cmuipcm-image-cntr
merce-ui-image-wrapper__image-container .cico

```


How big a controller should I use for a 24v solar panel

```

img{mix-blend-mode:normal}}.cmuipcm-badge{display:inline-block;background-color:#eff4fa;border-radius:6px;padding:var(--smtc-gap-between-content-xxx-small)var(--smtc-gap-between-content-x-small);font-family:"Segoe Sans",-apple-system,BlinkMacSystemFont,"Segoe UI",Roboto,sans-serif;font-size:14px;line-height:20px;font-weight:400;color:#1e2024;align-self:flex-start;white-space:nowrap;text-overflow:ellipsis;overflow:hidden;max-width:calc(100% - 12px)}.cmuipcm-rating-badge{position:absolute;top:8px;left:8px;background:var(--smtc-background-card-on-primary-default-hover);border-radius:var(--smtc-ctrl-badge-corner);padding:var(--smtc-gap-between-content-xxx-small)var(--smtc-gap-between-content-x-small);display:flex;align-items:center;z-index:1}.cmuipcm-rating-badge.ratingv2.snrnt.small-rtsgap:var(--smtc-gap-between-content-xxx-small);font-size:13px;line-height:20px}.cmuipcm-rating-badge.ratingv2.snrnt.small-rtsgap:var(--smtc-gap-between-content-xxx-small);font-size:13px;font-weight:400;line-height:20px;color:var(--smtc-foreground-content-neutral-primary);margin-left:2px}.cmuipcm-content-cntr{display:flex;flex-direction:column;flex:1;padding-top:var(--smtc-padding-ctrl-text-top)}.cmuipcm-content-cntr__base-info{display:flex;flex-direction:column;gap:var(--smtc-gap-between-content-xxx-small);padding:0var(--smtc-gap-between-content-xx-small);min-height:74px}.cmuipcm-content-cntr__title{margin-bottom:var(--smtc-gap-between-content-xxx-small);font:var(--bing-smtc-text-global-body3);color:var(--smtc-foreground-content-neutral-primary);overflow:hidden;display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:2;max-height:44px}.cmuipcm-content-cntr__title[data-rows="1"]{-webkit-line-clamp:1;max-height:22px}.cmuipcm-content-cntr__title[data-rows="2"]{-webkit-line-clamp:2}.cmuipcm-content-cntr__title[data-rows="3"]{-webkit-line-clamp:3;max-height:66px}.cmuipcm-content-cntr__hashtags{display:flex;flex-wrap:wrap;gap:var(--smtc-gap-between-content-xx-small);margin-bottom:var(--smtc-gap-between-content-xx-small);overflow:hidden;max-height:0;opacity:0;margin-top:-4px}.cmuipcm-content-cntr__hashtags-item{background-color:var(--smtc-status-informative-tint-background);color:var(--smtc-foreground-content-neutral-secondary);border-radius:var(--smtc-ctrl-badge-corner);font:var(--bing-smtc-text-global-caption1);padding:var(--smtc-gap-between-content-xxx-small)var(--smtc-gap-between-content-x-small);white-space:nowrap;text-overflow:ellipsis;overflow:hidden;max-width:100%}.cmuipcm-content-cntr.cmuipc-seller{display:flex;flex-direction:row;align-items:center;gap:var(--smtc-gap-between-content-xx-small)}.cmuipcm-content-cntr.cmuipc-seller__fb-prvdr{width:16px;height:16px;border-radius:3px}.cmuipcm-content-cntr.cmuipc-seller__name{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);white-space:nowrap;text-overflow:ellipsis;overflow:hidden}.cmuipcm-content-cntr__row-wrapper{display:flex;flex-direction:column;align-items:flex-start;gap:var(--smtc-gap-between-content-xxx-small);flex-wrap:wrap}.cmuipcm-content-cntr__row-wrapper.cmuipcm-meta-data.cmuipcm-meta-data--hoverable{max-height:0;opacity:0;margin-top:-2px}.cmuipcm-content-cntr__row-wrapper.cmuipcm-meta-data.cmuipcm-meta-data--one,.cmuipcm-content-cntr__row-wrapper.cmuipcm-meta-data:not(.cmuipcm-meta-data--hoverable){max-height:20px;opacity:1;margin-top:0}.cmuipcm-content-cntr__row-wrapper

```

How big a controller should I use for a 24v solar panel

```
.cmuipcm-meta-data.cmuipcm-meta-data--one~.cmuipcm-meta-data.cmuipcm-meta-data--one{max-height:0;opacity:0;margin-top:-2px}.cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data{display:flex;flex-direction:row;align-items:center}.cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data__icon{margin-right:4px}.cmuipcm-content-cntr__row-wrapper
.cmuipcm-meta-data__description{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}.cmuipcm-content-cntr__row-wrapper
.cmuipcm-price-row__range,.cmuipcm-content-cntr__row-wrapper.cmuipcm-price-row__range
.price-container[size="small"]{font:var(--bing-smtc-text-global-caption1-strong)}
merce-ui-product-card-medium-tp
.cmuipcm-content-cntr__title{margin-bottom:unset}.cmuipcm-price-row{display:flex;flex-direction:row;align-items:center;gap:var(--smtc-gap-between-content-xx-small)}.cmuipcm-price-row.cmuipcm-price-row--installment{align-items:flex-start;flex-direction:column;gap:var(--smtc-gap-between-content-xxx-small)}.cmuipcm-price-row.cmuipcm-price-row--installment.cmuipcm-price-row__og-price
.price-container[size="small"]{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-tertiary)}.cmuipcm-price-row
.price-container[size="small"]{font:var(--bing-smtc-text-global-caption1-strong)}.cmuipcm-price-row__range{display:flex;flex-direction:row;align-items:center;gap:var(--smtc-gap-between-content-xx-small)}.cmuipcm-price-row__cur-price
.price-container[color="neutral"]{font:var(--bing-smtc-text-global-caption1-strong);color:var(--smtc-foreground-content-neutral-primary)}.cmuipcm-price-row:not(.cmuipcm-price-row--installment)
.cmuipcm-price-row__lw-price
.price-container[color="neutral"]{font:var(--bing-smtc-text-global-caption1-strong);color:var(--smtc-status-success-tint-foreground)}.cmuipcm-price-row__og-price
.price-container[color="neutral"]{font:var(--bing-smtc-text-global-caption2);line-height:20px;text-decoration:line-through;color:var(--bing-smtc-foreground-content-neutral-tertiary)}.cmuipcm-free-shipping{font-size:12px;line-height:16px;color:#0f7b0f}
merce-ui-product-card-medium--hoverable
merce-ui-product-card-medium
.cmuipc-seller.cmuipc-seller--multi{opacity:1}
merce-ui-product-card-medium--hoverable
merce-ui-product-card-medium
.cmuipcm-color-options{transform:translateZ(0);transition-property:max-height,opacity;transition-duration:.16s;transition-timing-function:cubic-bezier(.4,0,.2,1);opacity:0;will-change:max-height,opacity;overflow:hidden}
merce-ui-product-card-medium--hoverable
merce-ui-product-card-medium.line-clamp-expanded
.cmuipcm-color-options{max-height:20px;opacity:1;margin-top:0;margin-bottom:-2px}
merce-ui-product-card-medium--hoverable
merce-ui-product-card-medium:not(.line-clamp-expanded)
.cmuipc-seller.cmuipc-seller--multi{max-height:unset;opacity:1;margin-top:0;margin-bottom:-2px}
merce-ui-product-card-medium--hoverable
merce-ui-product-card-medium:not(.line-clamp-expanded)
.cmuipcm-color-options{opacity:0;max-height:0;margin-top:-4px}
merce-ui-product-card-medium-tp
merce-ui-product-card-medium
.cmuipcm-content-cntr
.cmuipcm-color-options{max-height:20px;opacity:1;margin-top:0;margin-bottom:-2px}
merce-ui-product-card-medium
.cmuipcm-content-cntr
.cmuipc-seller.cmuipc-seller--multi{max-height:unset;opacity:1;margin-top:0;margin-bottom:-2px}
```

How big a controller should I use for a 24v solar panel

```

merce-ui-product-card-medium .cmuipcm-content-cntr
.cmuipc-seller__more{flex-shrink:0;font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foregrou
nd-content-neutral-secondary-alt);white-space:nowrap;text-overflow:ellipsis;overflow:hidden}
merce-ui-product-card-medium .cmuipcm-content-cntr__row-wrapper .cmuipcm-price-row__range
span{line-height:17px;margin-bottom:3px}
merce-ui-image-wrapper{display:inline-block;position:relative;overflow:hidden}
merce-ui-image-wrapper__slideshow-container:hover .b_overlay .btn.rounded.next,
merce-ui-image-wrapper__slideshow-container:hover .b_overlay .btn.rounded.prev{display:block}
merce-ui-image-wrapper__slideshow-container .b_overlay .btn.rounded.next{right:0;display:none}
merce-ui-image-wrapper__slideshow-container .b_overlay .btn.rounded.prev{left:0;display:none}
merce-ui-image-wrapper__slideshow-container .b_pager_overlay .b_pager{line-height:8px;margin-top:8px}
merce-ui-image-wrapper__slideshow-container .b_pager_overlay .b_pager .teraction>ul
li{width:4px;height:4px;color:#e0e0e0;background-color:#e0e0e0;border:unset;margin:0 2px 2px}
merce-ui-image-wrapper__slideshow-container .b_pager_overlay .b_pager .teraction>ul
li.active{width:10px;border-radius:99px;background-color:#707070;color:#707070}
merce-ui-image-wrapper__slideshow-container .b_pager_overlay .b_pager .teraction>ul
li:hover:not(.active){width:4px;height:4px;background-color:#707070;color:#707070;margin:0 2px
2px}.price-container{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:
flex;-webkit-box-direction:normal;-webkit-box-orient:horizontal;flex-direction:row;color:#242424;font-size:2
0px;line-height:22.4px;font-weight:600}.price-container[size="xx-small"]{font-size:12px;line-height:18px;fo
nt-weight:200}.price-container[size="x-small"]{font-size:14px;line-height:14px;font-weight:200}.price-contai
ner[size="small"]{font-size:16px;line-height:18px;font-weight:600}.price-container[size="medium"]{font-siz
e:20px;line-height:22.4px;font-weight:600}.price-container[size="large"]{font-size:24px;line-height:27.2px;f
ont-weight:600}.price-container[size="x-large"]{font-size:28px;line-height:27.3px;font-weight:600}.price-co
ntainer[color="neutral"],.price-container[discount-label-color="neutral"]
.price-container__discount-label{color:#242424}.price-container[color="accent-primary"],.price-container[dis
count-label-color="accent-primary"]
.price-container__discount-label{color:#128052}.price-container[color="accent-secondary"],.price-container[
discount-label-color="accent-secondary"]
.price-container__discount-label{color:#d63600}.price-container[color="subtle"],.price-container[discount-lab
el-color="subtle"]
.price-container__discount-label{color:#707070}.price-container[color="inverted"],.price-container[discount-l
abel-color="inverted"]
.price-container__discount-label{color:#fff}.price-container[color="accent-brand"],.price-container[discount-l
abel-color="accent-brand"] .price-container__discount-label{color:#2169eb}.price-container[strikethrough]
.price-container__currency,.price-container[strikethrough]
.price-container__integer,.price-container[strikethrough]
.price-container__cents,.price-container[strikethrough]
.price-container__decimal{text-decoration:line-through}.price-container[show-raised-cents]
.price-container__currency,.price-container[show-raised-cents]

```

How big a controller should I use for a 24v solar panel

```
.price-container__cents{vertical-align:top}.price-container[show-raised-cents]
.price-container__currency{margin-right:.1em;font-size:60%;line-height:1;transform:translate(0,10%)}.price-
container[show-raised-cents]
.price-container__cents{margin-left:.05em;font-size:60%;line-height:1;transform:translate(0,8%)}.price-conta
iner
.price-container__per-item-container{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-
flexbox;display:flex;-webkit-box-direction:normal;-webkit-box-orient:horizontal;flex-direction:row;-webkit-b
ox-align:end;-ms-flex-align:end;align-items:flex-end;color:#707070;padding-left:2px;column-gap:2px;font-w
eight:200}.price-container__discount-label{margin-left:.2em}.price-container[discount-label-position="top"]
:not([size="small"]):not([size="x-small"]):not([size="xx-small"])
.price-container__discount-label{vertical-align:top;font-size:60%;line-height:1;transform:translate(0,.1em)}.pr
ice-container[discount-label-position="bottom"]
.price-container__discount-label{margin-left:.2em;font-size:100%}
merce-ui-price{display:block}.ratingv2.snrnt{display:-webkit-box;display:-webkit-flex;display:-moz-flex;dis
play:-ms-flexbox;display:flex;flex-direction:row;gap:8px;align-items:center;color:#424242;line-height:22px;fo
nt-size:16px;position:relative;z-index:1}.ratingv2.snrnt.ratingHeader{gap:12px}.ratingv2.snrnt.ratingHeader
.rs-list{padding-bottom:0}.ratingv2.snrnt.ratingHeader
.rating-num{font-weight:400;font-size:56px;line-height:56px}.ratingv2.snrnt.ratingHeader
l{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:flex;flex-direction:c
olumn;gap:2px}.ratingv2.snrnt.ratingHeader
.review-cnt{font-size:14px;font-weight:400;line-height:20px;color:#707070}.ratingv2.snrnt
.rs-list{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:flex;gap:4px;
height:22px;align-items:center;padding-bottom:2px}.ratingv2.snrnt .rs-list .rating-st,.ratingv2.snrnt .rs-list
.rating-ste,.ratingv2.snrnt .rs-list .rating-sth{width:16px;height:16px;background-size:16px
16px}.ratingv2.snrnt .rating-num{font-weight:600}.ratingv2.snrnt .review-cnt,.ratingv2.snrnt
.divider{font-weight:400}.ratingv2.snrnt.medium-rt{gap:12px;line-height:22px;font-size:16px}.ratingv2.snrnt
t.medium-rt .rs-list{height:22px}.ratingv2.snrnt.medium-rt .rs-list .rating-st,.ratingv2.snrnt.medium-rt
.rs-list .rating-ste,.ratingv2.snrnt.medium-rt .rs-list .rating-sth{width:16px;height:16px;background-size:16px
16px}.ratingv2.snrnt.small-rt{gap:4px;line-height:16px;font-size:12px}.ratingv2.snrnt.small-rt
.rs-list{height:16px;padding-bottom:2px}.ratingv2.snrnt.small-rt .rs-list .rating-st,.ratingv2.snrnt.small-rt
.rs-list .rating-ste,.ratingv2.snrnt.small-rt .rs-list .rating-sth{width:12px;height:12px;background-size:12px
12px}.ratingv2.snrnt .rs-list
.rating-st{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2240%22%20height%3D%22
40%22%20viewBox%3D%220%200%2040%2040%22%20fill%3D%22none%22%20xmlns%3D%22http%3
A%2F%2F%2F2000%2Fsvg%22%3E%0A%3Cpath%20d%3D%22M17.803%202.08544C18.7017%200.264
492%2021.2983%200.264485%2022.197%202.08544L27.0493%2011.9174L37.8996%2013.494C39.9091%
2013.786%2040.7115%2016.2556%2039.2574%2017.673L31.4061%2025.3261L33.2595%2036.1325C33.60
28%2038.1339%2031.5021%2039.6602%2029.7047%2038.7152L20%2033.6132L10.2952%2038.7152C8.4
9785%2039.6602%206.39713%2038.1339%206.74041%2036.1325L8.59385%2025.3261L0.742549%2017.6
73C-0.711565%2016.2556%200.0908267%2013.786%202.10037%2013.494L12.9506%2011.9174L17.803%
```

How big a controller should I use for a 24v solar panel

202.08544Z%22%20fill%3D%22%23EAA300%22%2F%3E%0A%3C%2Fsvg%3E%0A)}}.ratingv2.snrnt
.rs-list
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How big a controller should I use for a 24v solar panel

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How big a controller should I use for a 24v solar panel

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.rating-sth.kumo-st{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2212%22%20height%3D%2213%22%20viewBox%3D%220%200%2012%2013%22%20fill%3D%22none%22%20xmlns%3D%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%20%20%3Cdefs%3E%0D%0A%20%20%20%20%20%3CclipPath%20id%3D%22rightPart%22%3E%0D%0A%20%20%20%20%20%20%20%3Crect%20x%3D%224.8%22%20y%3D%220%22%20width%3D%227.2%22%20height%3D%2213%22%20%2F%3E%0D%0A%20%20%20%20%20%3C%2FclipPath%3E%0D%0A%20%20%3C%2Fdefs%3E%0D%0A%20%20%3Cpath%20d%3D%22M5.28347%202.51846C5.57692%201.92386%206.42479%201.92386%206.71825%202.51846L7.8

How big a controller should I use for a 24v solar panel

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Renogy Solar Charge Controller Sizing and How to Choose One

MPPT Charge Controller Sizing: Because MPPT controllers limit their output, you can make an array as large as you want and a controller will limit that output. However, this means your system isn't as ...

This comprehensive guide will walk you through the exact calculations and considerations you need to select the perfect charge controller for your solar setup, whether you're building a small RV system or a full off-grid ...

To size a solar charge controller, take the total watts of your solar array and divide it by the voltage of your battery bank, then multiply by a safety factor of 1.25.

For example, if you have 300W of solar panels, a 24V system, and a charge controller with an 85% efficiency factor: $\text{Controller Capacity} = (300 / 24) (1 / 0.85) = 14.7\text{A}$. You would need a solar charge controller rated for ...

MPPT Charge Controller Sizing: Because MPPT controllers limit their output, you can make an array as large as you want and a controller will limit that output. However, this means your system isn't as efficient as it ...

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