

Here in this article, we will discuss types of single phase inverters, and their essential parts, applications, advantages, and disadvantages.

This application note explores the use of GreenPAK ICs in power electronics applications and will demonstrate the implementation of a single-phase inverter using various control methodologies.

This article will explain the function and workings of a single-phase inverter, providing insight into how these devices are used in electric applications and why they are essential components of many ...

Unlock the engineering behind single phase inverters, from input necessity to AC waveform generation and critical output quality.

Explore the workings of single-phase inverters, their types, key components, and diverse applications in power systems and electric vehicles.

But generally, these are classified into two types like single phase inverter and three phase inverter. This article provides brief information on single-phase inverter, their working, and ...

Compare single phase and split phase inverters to find the right fit for your energy needs. Learn their pros, cons, uses, and benefits for home and solar setups.

I've attached an extremely rudimentary sketch with what I see as the only possible option, which is using three transformers to balance all three phases into a single phase balanced ...

Introduction to Single-Phase Inverters
 Working Principle of A Single-Phase Inverter
 Types of Single-Phase Inverters
 Single-Phase Inverter Waveforms
 Key Components of A Single-Phase Inverter
 Applications of Single-Phase Inverters
 Conclusion
 A single-phase inverter operates by converting a DC input, often sourced from a battery or a fuel cell, into an AC output. This is achieved through a process known as switching. The DC input is switched in a pattern that generates a pseudo-AC waveform, usually a square wave, modified sine wave, or pure sine wave. The switching pattern is controlled...
 See more on electricity-magnetism .iacfm
 .iacf_head{display:flex;align-items:center;gap:var(--smtc-gap-between-content-small);text-decoration-color:var(--smtc-foreground-content-neutral-primary);box-sizing:border-box;margin-bottom:var(--smtc-gap-between-content-x-small)}.iacfm .iacf_head span{flex:1 1 0;white-space:nowrap;text-overflow:ellipsis;overflow:hidden;color:var(--smtc-foreground-content-neutral-primary);font:var(--bing-smtc-text-global-body3-strong)}.iacfm .iacf_head div{display:flex;height:22px;width:22px;justify-content:center;align-items:center;transition:background 300ms

```

ease-out;margin-right:-3px;border-radius:var(--mai-smtc-corner-list-card-default);overflow:hidden}.iacfm
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.rel_ent_w{margin-top:-4px}.b_top .rel_ent_w.rel_ent_crs{margin-top:0}.b_mm_swipable
.rel_ent_w{margin:4px 0 20px}.b_rich .rel_ent_w{margin:-3px -16px
8px}.rel_ent_w.rel_ent_scr:not(.rel_ent_crs){height:50px;overflow:hidden}.rel_ent_c{white-space:nowrap;ov
erflow:hidden;padding-left:1px;height:50px}.aqptmt:not(.rel_ent_crs) .rel_ent_c{display:flex}.rel_ent_wp
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.rel_ent_c{padding-bottom:12px}.b_mm_swipable
.rel_ent_c{padding-left:10px;margin-top:-2px;margin-bottom:4px}.b_rich
.rel_ent_c{padding-left:15px}.rel_ent_w.rel_ent_crs .slide,.rel_ent_w.rel_ent_crs
.slide:hover{width:auto;height:42px;border-radius:20px!important;box-shadow:none!important;overflow:visib
le}a.rel_ent{display:inline-block;padding:0 16px 0 12px;margin:4px 8px 4px
0;border-radius:20px;border:1px solid
#ddd;text-decoration:none;overflow:hidden;height:40px;max-width:80vw}:not(#!gVidAnsContainer)>.aqptmt
.rel_ent_c a.rel_ent{overflow:initial;display:flex}.slide a.rel_ent{margin:0;box-shadow:none}.b_sidebar
.slide .rel_ent .cico,.rel_ent .cico,.rel_ent>img{display:inline-block;vertical-align:middle;margin:2px 8px 2px
-10px;border-radius:50%;background:#f7f7f7;flex-shrink:0}.rel_ent_tw{vertical-align:middle;font-size:12px;
color:#444;line-height:16px;height:100%;float:right;display:table}.rel_ent_t{display:table-cell;vertical-align:
middle;align-content:center}.aqptmt:not(.spl2) .rel_ent_tw,.aqptmt:not(.spl2) .rel_ent_tw
.rel_ent_t{overflow:hidden;text-overflow:ellipsis;white-space:nowrap}.aqptmt:not(.spl2)
.rel_ent_tw{display:flex;overflow:hidden;text-overflow:ellipsis;align-items:center;white-space:nowrap}.rel_e
nt_w:not(.spl2) .rel_ent_t strong{display:inline-block;font-weight:normal}#b_results phead
.b_attribution{padding-bottom:8px}.iaplanner .b_moreLink{margin-top:11px}.iaplanner.iarnd
.b_moreLink{margin-top:3px}.b_ans .b_rich pserp.b_mBMargin{padding:0;border-top:0}.b_ans #vidans2
.b_rich .rel_ent_w{margin:6px 0 16px}.aqptmt a.rel_ent{border-color:#106ebe}.aqptmt:not(.spl2)
.rel_ent_tw,.aqptmt:not(.spl2) .rel_ent_tw .rel_ent_t{font-size:16px}.b_overlay
.btn.rounded{position:absolute;cursor:pointer;z-index:1;-moz-user-select:none;-khtml-user-select:none;-webki
t-user-select:none;-o-user-select:none;-ms-user-select:none;user-select:none}.b_overlay
.btn.rounded,.b_overlay .btn.rounded .bg,.b_overlay .btn.rounded .cr,.b_overlay .btn.rounded
.cr>div,.b_overlay .btn.rounded .vcac>div{border-radius:50%}.b_overlay .btn.rounded
.vcac{height:0}.b_overlay .btn.rounded{height:32px;width:32px;top:50%;margin-top:-16px}.b_overlay
.btn.rounded .bg,.b_overlay .btn.rounded:hover .bg{opacity:0}.b_overlay .btn.rtl.rounded
.cr{direction:ltr}.b_overlay .btn.hidden.rounded .cr,.b_overlay .btn.disabled.rounded
.cr{visibility:hidden}.b_overlay .btn.rounded .cr>div{border:1px solid #ecec;box-shadow:0 2px 3px 0
rgba(0,0,0,.1);height:30px;width:30px;overflow:hidden;background-image:none;background-color:#fff}.b_ov
erlay .btn.rounded .cr>div:hover{box-shadow:0 2px 4px 1px rgba(0,0,0,.14)}.b_overlay .btn.rounded
.cr>div:after{bottom:5px;background-color:#fff;transform-origin:-430px
0;display:inline-block;transform:scale(.5);position:relative}.b_overlay .btn.rounded

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.cr>div:hover:after{transform-origin:-514px 0}.b_overlay .btn.ltr.rounded .cr>div:after{right:5px}.b_overlay
.btn.rtl.rounded .cr>div:after{left:5px}.b_overlay .btn.prev.ltr.rounded .cr,.b_overlay .btn.next.rtl.rounded
.cr{transform:scaleX(-1)}body .b_overlay .btn.rounded.next{right:-12px}body .b_overlay
.btn.rounded.prev{left:-13px}.ra_car_container .b_overlay .btn.prev.ltr.rounded .cr>div,.ra_car_container
.b_overlay .btn.next.rtl.rounded .cr>div{transform:unset}.ra_car_container .b_overlay .btn.rounded
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*,.b_overlay .btn.rounded.disabled *{background:none}.b_overlay .btn.rounded.hidden,.b_overlay
.btn.rounded.disabled{background:none}}.b_overlay .btn.rounded
.cr>div:after{content:url(/rp/EX_mgILPdYtFnI-37m1pZn5YKII.png)}#b_content .acfImgAns
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.iasalink{text-align:center;display:block;padding-bottom:var(--smtc-gap-between-content-medium)}#b_conte
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.acfImgAns
.iaExp_chevron{height:initial;border-radius:var(--smtc-corner-circular);background:var(--bing-smtc-backgrou
nd-ctrl-neutral-rest);display:inline-block;position:relative;top:0;box-shadow:initial}#b_content .acfImgAns
.iasatxt{font:var(--bing-smtc-text-global-caption-1-strong);color:var(--bing-smtc-foreground-content-brand-res
t);padding:var(--smtc-gap-between-content-x-small)
var(--smtc-gap-between-content-small);display:flex;gap:var(--smtc-gap-between-content-x-small);justify-cont
ent:center;align-items:center}#b_content .acfImgAns .salink::before,#b_content .acfImgAns
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var(--smtc-stroke-ctrl-on-neutral-rest);width:100%;display:block;content:"";top:18px;position:relative}#b_con
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.acfImgAns .svgicon{width:12px;height:12px;margin-left:0;position:relative;top:0}html[dir=rtl] #b_content
.acfImgAns .iachevron,html[dir=rtl] #b_content .acfImgAns .svgicon{transform:scaleX(-1)}#b_content
.acfImgAns .rel_ent_w a.rel_ent{border:1px solid var(--acf-stroke-neutral-decorative)}#b_content .acfImgAns
.iaheader .iacf_head{text-decoration-color:var(--smtc-foreground-ctrl-neutral-primary-hover)}#b_content
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.iacfic.mmkiaacf .iacf_plan .cico{border-radius:var(--mai-smtc-corner-card-default)}#b_content
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button svg{transition:initial}#b_content .iacfic.mmkiaacf .iacf_crsl[data-wptds-carousel] button svg
path{fill:var(--smtc-foreground-content-neutral-secondary);forced-color-adjust:auto}#b_content .iacfic.mmkiaacf .iacfmit{position:absolute}#b_content .iacfic.mmkiaacf .iacfimgc{margin:auto}#b_content
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.b_ans.b_top.b_imgansacf{background-color:initial!important}#b_content .acfImgAns .iaheader
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span{text-decoration:underline}#b_content .acfImgAns .iaheader .iacf_head:hover
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.iacf_head .iacf_chv{width:22px;justify-content:center;height:22px}#b_content .acfImgAns
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.rel_ent_w .btn.rounded{top:initial;margin-top:1px}#b_content .acfImgAns .rel_ent_w
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.acfImgAns .rel_ent_w .cr>div:after{margin-inline-start:2px;top:0}#b_content .acfImgAns .rel_ent_w
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.rel_ent_w a.rel_ent:active{background:var(--smtc-background-card-on-primary-default-pressed)}#b_content
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.acfImgAns .rel_ent_w .rel_ent_c
.rel_ent:first-child{margin-inline-start:var(--mai-smtc-padding-card-default);align-items:center}html[dir=rtl]
#b_content .acfImgAns .iaheader .iacf_head svg{transform:scaleX(-1)}html[dir=rtl] #b_content .acfImgAns
.iacf_crsl[data-wptds-carousel] [data-direction="end"]{transform:scaleX(-1)}html[dir=rtl] #b_content
.acfImgAns .iacf_crsl[data-wptds-carousel] [data-direction="start"]{transform:scaleX(-1)}.iacfm .iacfmit
a:focus .isp_imgcont img,.iacfm .iacfmit a:focus .iacfimgc img,.iacfm .iacfmit a:focus .iacf_smol{outline:3px
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.cico::after{content:"";position:absolute;left:0;top:0;width:100%;height:100%;background:rgba(0,0,0,.03)}.gs
_card .iacfmit img,.b_wpt_container .iacfmit img,.b_acf_card .iacfmit img{transition:transform .3s
ease-out}.gs_card .iacfmit:hover .iacfimgc img,.b_wpt_container .iacfmit:hover .iacfimgc img,.b_acf_card
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;border-radius:inherit}.iacf_plan{position:relative}.iacfmit
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hidden;border-radius:var(--mai-smtc-corner-card-default)}.iacfca .iacf_crsl
.iacfmit{overflow:hidden;position:relative}.iacfca .iacf_crsl .iacfmit
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img{transform:scale(1.1)}.iacfca .iacfmit a:focus,.iacfca .iacfmit a:focus img{outline:0}.iacfca .iacfmit
a:focus .cico::after{border-radius:inherit;box-shadow:inset 0 0 0 3px
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var(--smtc-foreground-content-neutral-secondary);outline-offset:-2px}.iacfca
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var(--mai-smtc-padding-card-default)}.iacfca [data-wptds-carousel][data-default][data-variant="Normal"]
[data-wptds-carousel-scroll-container] ol{width:fit-content;align-items:center}.iacfca
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[data-wptds-carousel][data-default]
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.iacf_pag{position:absolute;bottom:8px;left:50%;transform:translate(-50%,0)}.cards.large
.iacfca{height:200px}[dir="rtl"] .iacfca .iacf_pag{transform:translate(50%,0)}.iacfm.iacfca
.iacf_crsl[data-wptds-carousel]
[data-wptds-carousel-control]{background:var(--bing-smtc-background-ctrl-neutral-rest);border:0;height:56px
;width:16px;transition:width .3s;background
.3s;color:var(--smtc-foreground-ctrl-neutral-primary-hover)}.iacfm.iacfca .iacf_crsl[data-wptds-carousel]

```

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m.iacfca .iacf_crsl[data-wptds-carousel] [data-wptds-carousel-control] path{fill:currentColor}.iacfm.iacfca
.iacf_crsl[data-wptds-carousel] ol [data-direction="start"]{border-radius:0 8px 8px
0;margin-left:16px}.iacfm.iacfca .iacf_crsl[data-wptds-carousel] ol [data-direction="start"]
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.iacf_crsl[data-wptds-carousel] [data-wptds-carousel-control],.iacfm.iacfca.iacf_ss
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tc-foreground-ctrl-on-image-rest)}.iacfm.iacfca.iacf_fb .iacf_crsl[data-wptds-carousel]
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[data-wptds-carousel-list]{width:fit-content}.iacfca .iacf_colg_crsl .iacfmit{position:absolute}.iacfca
.iacf_colg_crsl
.cico{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crsl){height:100%;width:100%;padding:0;overflow:
hidden;border-radius:inherit}.iacfca:not(.iacfh):has(>.iacf_colg_crsl)
.iacfmit{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crsl) [data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{inline-size:calc(100% + var(--wptds-carousel-control-size) -
var(--mai-smtc-padding-card-default)*2);transform:translateX(calc(0rem +
var(--mai-smtc-padding-card-default) - (var(--wptds-carousel-control-size)/2)))
translateY(-50%)}[data-wptds-carousel][data-default],[data-wptds-carousel][data-default]::before,[data-wptds-
carousel][data-default]::after,[data-wptds-carousel][data-default] *,[data-wptds-carousel][data-default]
*::before,[data-wptds-carousel][data-default]
*::after{box-sizing:border-box;margin:0;padding:0}[data-wptds-carousel][data-default][hidden],[data-wptds-c
arousel][data-default]
[hidden]{display:none}[data-wptds-carousel][data-default][data-visually-hidden],[data-wptds-carousel][data-d
efault] [data-visually-hidden]{block-size:.0625rem;border:0;clip:rect(0 0 0
0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-carousel]
[data-default]{--wptds-carousel-control-bg-color:#fff;--wptds-carousel-control-border-color:#ddd;--wptds-car
ousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#767676;--wptds-carousel-control-size:2rem;display:block;po
sition:relative;block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]{overflow-x:auto;overflow-y:clip;scroll-behavior:smooth;block-size:10
0%;-ms-overflow-style:none;scrollbar-width:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]::-webkit-scrollbar{display:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]:focus-visible{outline-color:Highlight;outline-color:-webkit-focus-ring-
color;outline-offset:.0625rem;outline-style:auto;outline-width:.0625rem}[data-wptds-carousel][data-default]

```

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[data-wptds-carousel-list]{display:flex;gap:.5rem;list-style:none;block-size:100%}[data-wptds-carousel][data-
default]      [data-wptds-carousel-list]>*{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-list]>:not([data-wptds-carousel-item]){display:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]>*{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]>img{display:block;inline-size:auto}[data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{list-style:none;position:absolute;inline-size:calc(100% +
var(--wptds-carousel-control-size));inset-block-start:50%;transform:translateX(calc(0rem -
(var(--wptds-carousel-control-size)/2)))
translateY(-50%);display:flex;align-items:center;justify-content:space-between;pointer-events:none}[data-wpt
ds-carousel][data-default]
[data-wptds-carousel-controls]>*{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]{cursor:pointer;inline-size:var(--wptds-carousel-control-size);aspect-ratio:1;displ
ay:grid;place-content:center;border-radius:50%;background-color:var(--wptds-carousel-control-bg-color);bord
er:.0625rem solid
var(--wptds-carousel-control-border-color);box-shadow:var(--wptds-carousel-control-box-shadow);color:var(-
-wptds-carousel-control-fg-color);opacity:var(--wptds-carousel-control-opacity);pointer-events:all}[data-wptd
s-carousel][data-default]
[data-wptds-carousel-control]:active{--wptds-carousel-control-bg-color:#fff;--wptds-carousel-control-border-c
olor:#ddd;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem
rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#767676}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]:focus-visible{outline-color:Highlight;outline-color:-webkit-focus-ring-color;out
line-offset:.0625rem;outline-style:auto;outline-width:.0625rem}[data-wptds-carousel][data-default]
[data-wptds-carousel-control] *{pointer-events:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]>svg{display:block}[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(1)}[data-wptds-carousel][data-de
fault]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(-1)}[data-wptds-carousel][data-de
fault]
[data-wptds-carousel-control][aria-disabled="true"]{visibility:hidden;cursor:not-allowed}[data-wptds-carousel
][data-default]      [data-wptds-carousel-announce]{block-size:.0625rem;border:0;clip:rect(0 0 0
0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-carousel]
[data-default][data-variant="Normal"],[data-wptds-carousel][data-default][data-variant="FullWidth"]{--wptds
-carousel-control-opacity:0}[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wptds-caro
usel-scroll-container]:focus-visible),[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wpt
ds-carousel-control]:focus-visible),[data-wptds-carousel][data-default][data-variant="FullWidth"]:has([data-w
ptds-carousel-scroll-container]:focus-visible),[data-wptds-carousel][data-default][data-variant="FullWidth"]:h
as([data-wptds-carousel-control]:focus-visible){--wptds-carousel-control-opacity:1}[data-wptds-carousel][dat
a-default][data-variant="Normal"][data-snap]      [data-wptds-carousel-scroll-container]{scroll-snap-type:x
proximity}[data-wptds-carousel][data-default][data-variant="Normal"][data-snap]
[data-wptds-carousel-item]{scroll-snap-align:center;scroll-snap-stop:always}[data-wptds-carousel][data-defau

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It][data-variant="Normal"][data-snap]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel][data-default][data-variant="Normal"][data-snap]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel][data-default][data-variant="FullWidth"]
[data-wptds-carousel-scroll-container]{scroll-snap-type:x mandatory}[data-wptds-carousel][data-default][data-variant="FullWidth"]
[data-wptds-carousel-item]{inline-size:100%;scroll-snap-align:center;scroll-snap-stop:always}[data-wptds-carousel][data-default][data-variant="FullWidth"]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel][data-default][data-variant="FullWidth"]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel][data-default][data-variant="FullWidth"]
[data-wptds-carousel-item]>*{inline-size:100%}[data-wptds-carousel][data-default][data-bleed-inline]
[data-wptds-carousel-controls]{--control-side-gap:.25rem;inline-size:calc(100% - (var(--control-side-gap)*2));transform:translateX(calc(0rem + var(--control-side-gap))) translateY(-50%)}[data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-bg-color:#fff;--wptds-carousel-control-border-color:#ddd;--wptds-carousel-control-box-shadow:0rem .125rem .3125rem rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#111}[data-wptds-carousel][data-desktop][data-variant="Normal"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel][data-desktop][data-variant="Normal"]:has([data-wptds-carousel-control]:hover),[data-wptds-carousel][data-desktop][data-variant="FullWidth"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel][data-desktop][data-variant="FullWidth"]:has([data-wptds-carousel-control]:hover){--wptds-carousel-control-opacity:1}[dir="rtl"]
[data-wptds-carousel][data-default] [data-wptds-carousel-controls]{transform:translateX(calc(0rem + (var(--wptds-carousel-control-size)/2))) translateY(-50%)}[dir="rtl"] [data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(-1)}[dir="rtl"]
[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(1)}[dir="rtl"]
[data-wptds-carousel][data-default][data-bleed-inline]
[data-wptds-carousel-controls]{transform:translateX(calc(0rem - var(--control-side-gap))) translateY(-50%)} .b_dark [data-wptds-carousel][data-default],.b_drk
[data-wptds-carousel][data-default]{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce} .b_dark [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active,.b_drk [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce} .b_dark [data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active),.b_drk
[data-wptds-carousel][data-desktop]

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[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-bg-color:#605e5c;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .3125rem rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#faf9f8}.gs_card .iacfic .iacfmit .iacfimgc,.gs_card .iacfic .iacfmit .cico,.b_wpt_container .iacfic .iacfmit .iacfimgc,.b_wpt_container .iacfic .iacfmit .cico{width:100%!important;height:100%!important;border-radius:0}.gs_card .iacfic .iacfmit.iacfstc img,.gs_card .iacfic .iacfmit .iacfimgc img,.b_wpt_container .iacfic .iacfmit.iacfstc img,.b_wpt_container .iacfic .iacfmit .iacfimgc img{width:100%;height:100%;object-fit:cover}.gs_card .iacfic .iacfmit .iacfimgc,.b_wpt_container .iacfic .iacfmit .iacfimgc{position:absolute;top:0;bottom:0;left:0;right:0;margin:auto}#slideexp4_AF19FD .slide { margin-right: 8px; }#slideexp4_AF19FDc .b_slidebar .slide { border-radius: 6px; }#slideexp4_AF19FD .slide:last-child { margin-right: 1px; }#slideexp4_AF19FDc { margin: -4px; } #slideexp4_AF19FDc .b_viewport { padding: 4px 1px 4px 1px; margin: 0 3px; } #slideexp4_AF19FDc .b_slidebar .slide { box-shadow: 0 0 0 1px rgba(0, 0, 0, 0.05); -webkit-box-shadow: 0 0 0 1px rgba(0, 0, 0, 0.05); } #slideexp4_AF19FDc .b_slidebar .slide.see_more { box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); } #slideexp4_AF19FDc .b_slidebar .slide.see_more .carousel_seemore { border: 0px; }#slideexp4_AF19FDc .b_slidebar .slide.see_more:hover { box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); }Images of inverter to Single PhaseThree Phase Inverter 5kWThree Phase Inverter KitThree Phase Inverter ModuleThree Phase Inverter ChargerThree Phase Inverter TransformerSolarSplit Phase InverterSingleThree-Phase Inverter OutputSee all.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>
```

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-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
.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-card-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-radius: var(--mai-smtc-corner-card-default); outline-offset: -1px; position: absolute; width: 100%; height: 100% } .b_acf_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: 312px } .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_row9 { height: 984px } .acf_row10 { height: 1096px } .acf_row11 { height: 1208px } .acf_row12 { height: 1320px } .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; border-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) } .acfdefaultchev .cr: hover { background: var(--smtc-ctrl-fab-background-hover) } .acfdefaultchev .cr: active { background: var(--smtc-ctrl-fab-background-pressed) } .b_ofchev .acfdefaultchev.btn.prev .cr { left: -18px } .b_ofchev .acfdefaultchev.btn.next .cr { right: -18px } @media (forced-colors: active) { .acfdefaultchev .cr { background: ButtonFace } .acfdefaultchev .cr > svg { fill: ButtonText } .acfdefaultchev .cr: hover, .acfdefaultchev .cr: has(:focus-visible) { background: Highlight } } [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-radius: var(--mai-smtc-corner-card-default) }
merce-ui-product-card-medium__target-link { display: flex; flex-direction: column; color: inherit; text-decoration: none }
merce-ui-product-card-medium__target-link: hover,
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

```

```

background-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:hover::before{transform:scale(1)
translateZ(0);background-color:var(--bing-smtc-background-card-on-primary-alt-hover);box-shadow:0 4px
12px 1px rgba(0,0,0,.14);transition:transform .16s cubic-bezier(.4,0,.2,1),background-color 0s
cubic-bezier(.4,0,.2,1)}
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
ansition-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}

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```

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)}.cmuipcm-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
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 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-clam

```

```

p:2;max-height:44px}.cmuipcm-content-cntr__title[data-rows="1"]{-webkit-line-clamp:1;max-height:22px}.c
muipcm-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);overflo
w: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-betw
een-content-xxx-small)
var(--smtc-gap-between-content-x-small);white-space:nowrap;text-overflow:ellipsis;overflow:hidden;max-wi
dth:100%}.cmuipcm-content-cntr
.cmuipc-seller{display:flex;flex-direction:row;align-items:center;gap:var(--smtc-gap-between-content-xx-smal
l)}.cmuipcm-content-cntr
.cmuipc-seller__name{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-n
eutral-secondary-alt);white-space:nowrap;text-overflow:ellipsis;overflow:hidden}.cmuipcm-content-cntr__ro
w-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-cont
ent-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}.cmuipc
m-content-cntr__row-wrapper
.cmuipcm-meta-data.cmuipcm-meta-data--one~.cmuipcm-meta-data.cmuipcm-meta-data--one{max-height:0;o
pacity: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-foregroun
d-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--install
ment{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-c
ontent-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-foregrou
nd-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-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}
.ratingv2.snrnt{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:flex;flex-direction:row;gap:8px;align-items:center;color:#424242;line-height:22px;font-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:column;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-rts{gap:12px;line-height:22px;font-size:16px}.ratingv2.snrnt
t.medium-rts .rs-list{height:22px}.ratingv2.snrnt.medium-rts .rs-list .rating-st,.ratingv2.snrnt.medium-rts
.rs-list .rating-ste,.ratingv2.snrnt.medium-rts .rs-list .rating-sth{width:16px;height:16px;background-size:16px
16px}.ratingv2.snrnt.small-rts{gap:4px;line-height:16px;font-size:12px}.ratingv2.snrnt.small-rts
.rs-list{height:16px;padding-bottom:2px}.ratingv2.snrnt.small-rts .rs-list .rating-st,.ratingv2.snrnt.small-rts
.rs-list .rating-ste,.ratingv2.snrnt.small-rts .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%2240%22%20viewBox%3D%220%200%2040%2040%22%20fill%3D%22none%22%20xmlns%3D%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0A%3Cpath%20d%3D%22M17.803%202.08544C18.7017%200.264492%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%
202.08544Z%22%20fill%3D%22%23EAA300%22%2F%3E%0A%3C%2Fsvg%3E%0A)}}.ratingv2.snrnt
.rs-list
.rating-st.neutral-st{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2216%22%20height
%3D%2216%22%20viewBox%3D%220%200%2016%2016%22%20fill%3D%22none%22%20xmlns%3D%
22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%3Cpath%20d%3D%22M3.36595%2016C3.23027
%2016%203.11285%2015.9481%203.0137%2015.8442C2.91455%2015.7403%202.86497%2015.6146%202
.86497%2015.4669C2.86497%2015.4287%202.86758%2015.3986%202.8728%2015.3767L3.71037%2010.2
43L0.148728%206.60994C0.049576%206.50607%200%206.38305%200%206.2409C0%206.11515%200.04
17482%206.00034%200.125245%205.89646C0.208741%205.79258%200.310502%205.72971%200.430528
%205.70784L5.34638%204.96156L7.55382%200.287032C7.59556%200.199556%207.65558%200.131215
%207.73386%200.0820092C7.81213%200.0328037%207.89824%200.00546728%207.99217%200C8.08611
%200%208.17482%200.0246028%208.25832%200.0738083C8.34181%200.123014%208.40444%200.19408
9%208.44618%200.287032L10.6536%204.96156L15.5695%205.70784C15.6947%205.72971%2015.7965%
205.78985%2015.8748%205.88826C15.953%205.98667%2015.9948%206.10149%2016%206.2327C16%20
6.38579%2015.9504%206.51153%2015.8513%206.60994L12.2896%2010.243L13.1272%2015.3767C13.132
4%2015.3986%2013.135%2015.4287%2013.135%2015.4669C13.135%2015.6091%2013.0855%2015.7321
%2012.9863%2015.836C12.8871%2015.9399%2012.7697%2015.9918%2012.6341%2015.9918C12.5453%2
015.9918%2012.4671%2015.9727%2012.3992%2015.9344L8%2013.5069L3.60078%2015.9344C3.52772%
2015.9781%203.44945%2016%203.36595%2016Z%22%20fill%3D%22%23616161%22%2F%3E%0D%0A
%3C%2Fsvg%3E%0D%0A)}}.ratingv2.snrnt .rs-list
.rating-st.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%3Cpath%20d%3D%22M5.28347%202.51846C5.
57692%201.92386%206.42479%201.92386%206.71825%202.51846L7.82997%204.77107L10.3159%205.13
229C10.9721%205.22764%2011.2341%206.03402%2010.7592%206.49684L8.96043%208.25026L9.38507
%2010.7261C9.49716%2011.3796%208.81122%2011.878%208.22431%2011.5695L6.00086%2010.4005L3.
7774%2011.5695C3.19049%2011.878%202.50455%2011.3796%202.61664%2010.7261L3.04128%208.2502
6L1.24246%206.49684C0.767651%206.03402%201.02966%205.22764%201.68584%205.13229L4.17174%
204.77107L5.28347%202.51846Z%22%20fill%3D%22%23242424%22%2F%3E%0D%0A%3C%2Fsvg%3E
)}}.ratingv2.snrnt .rs-list
.rating-ste{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2240%22%20height%3D%2
240%22%20viewBox%3D%220%200%2040%2040%22%20fill%3D%22none%22%20xmlns%3D%22http%
3A%2F%2F%2F2000%2Fsvg%22%3E%0A%3Cpath%20d%3D%22M17.803%202.08544C18.7017%200.26
4492%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.
6028%2038.1339%2031.5021%2039.6602%2029.7047%2038.7152L20%2033.6132L10.2952%2038.7152C8
.49785%2039.6602%206.39713%2038.1339%206.74041%2036.1325L8.59385%2025.3261L0.742549%2017

```
.673C-0.711565%2016.2556%200.0908267%2013.786%202.10037%2013.494L12.9506%2011.9174L17.803
%202.08544Z%22%20fill%3D%22%23E6E6E6%22%2F%3E%0A%3C%2Fsvg%3E%0A)}.ratingv2.snrnt
.rs-list
.rating-ste.neutral-st{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2216%22%20heig
ht%3D%2216%22%20viewBox%3D%220%200%2016%2016%22%20fill%3D%22none%22%20xmlns%3D
%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%3Cpath%20d%3D%22M3.36595%2016C3.230
27%2016%203.11285%2015.9481%203.0137%2015.8442C2.91455%2015.7403%202.86497%2015.6146%2
02.86497%2015.4669C2.86497%2015.4287%202.86758%2015.3986%202.8728%2015.3767L3.71037%2010
.243L0.148728%206.60994C0.049576%206.50607%200%206.38305%200%206.2409C0%206.11515%200.0
417482%206.00034%200.125245%205.89646C0.208741%205.79258%200.310502%205.72971%200.43052
8%205.70784L5.34638%204.96156L7.55382%200.287032C7.59556%200.199556%207.65558%200.131215
%207.73386%200.0820092C7.81213%200.0328037%207.89824%200.00546728%207.99217%200C8.08611
%200%208.17482%200.0246028%208.25832%200.0738083C8.34181%200.123014%208.40444%200.19408
9%208.44618%200.287032L10.6536%204.96156L15.5695%205.70784C15.6947%205.72971%2015.7965%
205.78985%2015.8748%205.88826C15.953%205.98667%2015.9948%206.10149%2016%206.2327C16%20
6.38579%2015.9504%206.51153%2015.8513%206.60994L12.2896%2010.243L13.1272%2015.3767C13.132
4%2015.3986%2013.135%2015.4287%2013.135%2015.4669C13.135%2015.6091%2013.0855%2015.7321
%2012.9863%2015.836C12.8871%2015.9399%2012.7697%2015.9918%2012.6341%2015.9918C12.5453%2
015.9918%2012.4671%2015.9727%2012.3992%2015.9344L8%2013.5069L3.60078%2015.9344C3.52772%
2015.9781%203.44945%2016%203.36595%2016Z%22%20fill%3D%22%23E6E6E6%22%2F%3E%0D%0A
%3C%2Fsvg%3E%0D%0A)}.ratingv2.snrnt
.rs-list
.rating-ste.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%3Cpath%20d%3D%22M5.28347%202.51846C5.
57692%201.92386%206.42479%201.92386%206.71825%202.51846L7.82997%204.77107L10.3159%205.13
229C10.9721%205.22764%2011.2341%206.03402%2010.7592%206.49684L8.96043%208.25026L9.38507
%2010.7261C9.49716%2011.3796%208.81122%2011.878%208.22431%2011.5695L6.00086%2010.4005L3.
7774%2011.5695C3.19049%2011.878%202.50455%2011.3796%202.61664%2010.7261L3.04128%208.2502
6L1.24246%206.49684C0.767651%206.03402%201.02966%205.22764%201.68584%205.13229L4.17174%
204.77107L5.28347%202.51846Z%22%20fill%3D%22%23E9EEF5%22%2F%3E%0D%0A%3C%2Fsvg%3
E)}.ratingv2.snrnt
.rs-list
.rating-sth{background-image:url(data:image/svg+xml,%0A%3Csvg%20width%3D%2240%22%20height%3
D%2240%22%20viewBox%3D%220%200%2040%2040%22%20fill%3D%22none%22%20xmlns%3D%22h
ttp%3A%2F%2F%2F2000%2Fsvg%22%3E%0A%3Cmask%20id%3D%22mask0_18_119%22%20style%3D
%22mask-type%3Aalpha%22%20maskUnits%3D%22userSpaceOnUse%22%20x%3D%220%22%20y%3D
%220%22%20width%3D%2240%22%20height%3D%2240%22%3E%0A%3Cg%20clip-path%3D%22url%2
8%23clip0_18_119%29%22%3E%0A%3Cpath%20d%3D%22M17.803%202.08544C18.7017%200.264492
%2021.2983%200.264485%2022.197%202.08544L27.0493%2011.9174L37.8996%2013.494C39.9091%201
3.786%2040.7115%2016.2556%2039.2574%2017.673L31.4061%2025.3261L33.2595%2036.1325C33.6028
%2038.1339%2031.5021%2039.6602%2029.7047%2038.7152L20%2033.6132L10.2952%2038.7152C8.497
85%2039.6602%206.39713%2038.1339%206.74041%2036.1325L8.59385%2025.3261L0.742549%2017.673
```

C-0.711565%2016.2556%200.0908267%2013.786%202.10037%2013.494L12.9506%2011.9174L17.803%20
2.08544Z%22%20fill%3D%22%23212121%22%2F%3E%0A%3C%2Fg%3E%0A%3C%2Fmask%3E%0A%
3Cg%20mask%3D%22url%28%23mask0_18_119%29%22%3E%0A%3Crect%20width%3D%2240%22%20
height%3D%2240%22%20fill%3D%22%23E6E6E6%22%2F%3E%0A%3Crect%20width%3D%2220%22%
20height%3D%2240%22%20fill%3D%22%23EAA300%22%2F%3E%0A%3C%2Fg%3E%0A%3Cdefs%3E
%0A%3CclipPath%20id%3D%22clip0_18_119%22%3E%0A%3Crect%20width%3D%2240%22%20height
%3D%2240%22%20fill%3D%22white%22%2F%3E%0A%3C%2FclipPath%3E%0A%3C%2Fdefs%3E%0A
%3C%2Fsvg%3E%0A)}}.ratingv2.snrnt .rs-list
.rating-sth.neutral-st{background-image:url(data:image/svg+xml,%3Csvg%20width%3D%2216%22%20heig
ht%3D%2216%22%20viewBox%3D%220%200%2016%2016%22%20fill%3D%22none%22%20xmlns%3D
%22http%3A%2F%2F%2F2000%2Fsvg%22%3E%0D%0A%3Cmask%20id%3D%22mask0_18_119%22%2
0style%3D%22mask-type%3Aalpha%22%20maskUnits%3D%22userSpaceOnUse%22%20x%3D%220%22
%20y%3D%220%22%20width%3D%2216%22%20height%3D%2216%22%3E%0D%0A%3Cg%20clip-path
%3D%22url%28%23clip0_18_119%29%22%3E%0D%0A%3Cpath%20d%3D%22M3.36595%2016C3.2302
7%2016%203.11285%2015.9481%203.0137%2015.8442C2.91455%2015.7403%202.86497%2015.6146%20
2.86497%2015.4669C2.86497%2015.4287%202.86758%2015.3986%202.8728%2015.3767L3.71037%2010.
243L0.148728%206.60994C0.049576%206.50607%200%206.38305%200%206.2409C0%206.11515%200.0
417482%206.00034%200.125245%205.89646C0.208741%205.79258%200.310502%205.72971%200.43052
8%205.70784L5.34638%204.96156L7.55382%200.287032C7.59556%200.199556%207.65558%200.131215
%207.73386%200.0820092C7.81213%200.0328037%207.89824%200.00546728%207.99217%200C8.08611
%200%208.17482%200.0246028%208.25832%200.0738083C8.34181%200.123014%208.40444%200.19408
9%208.44618%200.287032L10.6536%204.96156L15.5695%205.70784C15.6947%205.72971%2015.7965%
205.78985%2015.8748%205.88826C15.953%205.98667%2015.9948%206.10149%2016%206.2327C16%20
6.38579%2015.9504%206.51153%2015.8513%206.60994L12.2896%2010.243L13.1272%2015.3767C13.132
4%2015.3986%2013.135%2015.4287%2013.135%2015.4669C13.135%2015.6091%2013.0855%2015.7321
%2012.9863%2015.836C12.8871%2015.9399%2012.7697%2015.9918%2012.6341%2015.9918C12.5453%2
015.9918%2012.4671%2015.9727%2012.3992%2015.9344L8%2013.5069L3.60078%2015.9344C3.52772%
2015.9781%203.44945%2016%203.36595%2016Z%22%20fill%3D%22%23616161%22%2F%3E%0D%0A
%3C%2Fg%3E%0D%0A%3C%2Fmask%3E%0D%0A%3Cg%20mask%3D%22url%28%23mask0_18_119
%29%22%3E%0D%0A%3Crect%20width%3D%2216%22%20height%3D%2216%22%20fill%3D%22%23
E6E6E6%22%2F%3E%0D%0A%3Crect%20width%3D%228%22%20height%3D%2216%22%20fill%3D%22
2%23616161%22%2F%3E%0D%0A%3C%2Fg%3E%0D%0A%3Cdefs%3E%0D%0A%3CclipPath%20id%
3D%22clip0_18_119%22%3E%0D%0A%3Crect%20width%3D%2216%22%20height%3D%2216%22%20fi
ll%3D%22white%22%2F%3E%0D%0A%3C%2FclipPath%3E%0D%0A%3C%2Fdefs%3E%0D%0A%3C%
2Fsvg%3E%0D%0A%0D%0A)}}.ratingv2.snrnt .rs-list
.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
%3CclipPath%20id%3D%22rightPart%22%3E%0D%0A%20%20%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%2
0%20%20%20%20%3C%2FclipPath%3E%0D%0A%20%20%20%20%20%20%20%20%20%3Cpath%20d

```

%3D%22M5.28347%202.51846C5.57692%201.92386%206.42479%201.92386%206.71825%202.51846L7.8
2997%204.77107L10.3159%205.13229C10.9721%205.22764%2011.2341%206.03402%2010.7592%206.496
84L8.96043%208.25026L9.38507%2010.7261C9.49716%2011.3796%208.81122%2011.878%208.22431%2
011.5695L6.00086%2010.4005L3.7774%2011.5695C3.19049%2011.878%202.50455%2011.3796%202.6166
4%2010.7261L3.04128%208.25026L1.24246%206.49684C0.767651%206.03402%201.02966%205.22764%
201.68584%205.13229L4.17174%204.77107L5.28347%202.51846Z%22%20fill%3D%22%23242424%22%
2F%3E%0D%0A%20%20%3Cpath%20d%3D%22M5.28347%202.51846C5.57692%201.92386%206.42479
%201.92386%206.71825%202.51846L7.82997%204.77107L10.3159%205.13229C10.9721%205.22764%20
11.2341%206.03402%2010.7592%206.49684L8.96043%208.25026L9.38507%2010.7261C9.49716%2011.37
96%208.81122%2011.878%208.22431%2011.5695L6.00086%2010.4005L3.7774%2011.5695C3.19049%20
11.878%202.50455%2011.3796%202.61664%2010.7261L3.04128%208.25026L1.24246%206.49684C0.7676
51%206.03402%201.02966%205.22764%201.68584%205.13229L4.17174%204.77107L5.28347%202.51846
Z%22%20fill%3D%22%23E9EEF5%22%20clip-path%3D%22url%28%23rightPart%29%22%2F%3E%0D%
0A%3C%2Fsvg%3E)}.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:20px;line-height:22.4px;font-weight:600}.price-container[size="xx-small"]{font-size:12px;
line-height:18px;font-weight:200}.price-container[size="x-small"]{font-size:14px;line-height:14px;font-weig
ht:200}.price-container[size="small"]{font-size:16px;line-height:18px;font-weight:600}.price-container[size=
"medium"]{font-size:20px;line-height:22.4px;font-weight:600}.price-container[size="large"]{font-size:24px;l
ine-height:27.2px;font-weight:600}.price-container[size="x-large"]{font-size:28px;line-height:27.3px;font-we
ight:600}.price-container[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]
.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}#slideexp1_A5D75B .slide { width: 150px; margin-right: 16px;
}#slideexp1_A5D75Bc .b_slidebar .slide { border-radius: 6px; }#slideexp1_A5D75B .slide:last-child {
margin-right: 0px; }#slideexp1_A5D75Bc .b_slidebar .slide[data-mini="1"] { display:none;
}BLUETTI Single-Phase Inverter | How It Works - BLUETTI-US This article will explain the function and
workings of a single-phase inverter, providing insight into how these devices are used in electric applications
and why they are essential components of many ...
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Inverters are crucial components in power electronics because they transform DC input voltage to AC output voltage. Talking about single-phase inverters, these convert a DC input source into a single ...

2.2 Voltage Control in Single - Phase Inverters The schematic of inverter system is as shown in Figure 2.1, in which the battery or rectifier provides the dc supply to the inverter. The inverter is used to ...

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