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Title: 12v full bridge inverter

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**Diagram Description:** The diagram would physically show the full-bridge inverter circuit configuration with labeled switches, diodes, DC input, and output terminals.

In this post we try to investigate how to design a SG3525 full bridge inverter circuit by applying an external bootstrap circuit in the design. The idea was requested by Mr. Mr. ...

Designed for ultimate durability, the Victron Phoenix Inverter boasts a full-bridge with toroidal transformer topology, ensuring reliable power delivery for years to come.

**?STABLE POWER?**This inverter provides of continuous AC 110V power through DC power battery. The Inverter is ideal for Camping Car, RV Battery, Solar System, Caravan and more ...

This article is about the working operation and waveform of a single-phase full bridge inverter for R load, RL load and RLC load. The comparison of all loads is given at the end of this article.

This circuit was designed to demonstrate the phase-shifted full bridge power supply to generate 12V at 35A from a typical telecom input voltage range of 36V to 72V.

The Pheonix Inverter VE.Direct is a uniquely compact, low-frequency inverter with a built-in full bridge toroidal transformer allowing it to handle large surge capacity from inductive loads. The ...

Inverter can be widely classified based on many parameters but considering one of them based on the arrangement of the power electronic switches: half-bridge inverter and full-bridge ...

**Diagram Description:** The diagram would physically show the full-bridge inverter circuit configuration with labeled switches, diodes, DC input, and ...

How to Make A SG3525 Full Bridge Inverter CircuitCircuit DiagramAn Easier Full Bridge Inverter Using P-Channel MOSFETAdding A "Dead Time" to The Low Side MOSFETNow since we know how to implement a full bridge network using bootstrapping, let's try to understand how this could be applied for achieving a full bridgeSG3525 inverter circuit, which is by far one of the the most popular and the most sought after ICs for making an inverter. The following design shows the standard modul...See more on

```
#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 .b_ans.b_vidAns
#serpvidans.vsacf .mc_vtvc,#b_results .b_ans.b_vidAns #serpvidans.vsacf .mc_vtvc_th,#b_results
.b_ans.b_vidAns #serpvidans.vsacf .cico,#b_results .b_ans.b_vidAns #serpvidans.vsacf
.mc_vtvc_htb,#b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhc,#b_results .b_ans.b_vidAns
#serpvidans.vsacf .vrhcp,#b_results .b_ans.b_vidAns #serpvidans.vsacf .vrhtc,#b_results .b_ans.b_vidAns
#serpvidans.vsacf .vrhtpc{border-radius:var(--mai-smtc-corner-list-card-nested-default)}#b_results
.b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc,#b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist
.mc_vtvc .mc_vtvc_meta{margin:0}#b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta .mc_vtvc_meta_channel,#b_results .b_ans.b_vidAns #serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta
.mc_vtvc_meta_row_channel{color:var(--smtc-foreground-content-neutral-primary)}#serpvidans.vsacf,#serpv
idans.vsacf .expctn .expbody,#serpvidans.vsacf
.mmlist{display:flex;flex-direction:column;gap:var(--smtc-gap-between-content-medium)}#serpvidans.vsacf
.cico{height:auto}#serpvidans.vsacf .mc_vtvc_ban_lo{top:0;right:auto}#serpvidans.vsacf .mc_cwvc .mc_vtvc
.mc_vtvc_meta,#serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta{height:auto;padding:var(--smtc-gap-between-content-xx-small) 0
var(--smtc-gap-between-content-xx-small)
var(--smtc-gap-between-content-medium);display:flex;flex-direction:column;justify-content:space-between}#
serpvidans.vsacf .mc_cwvc .mc_vtvc .mc_vtvc_meta .mc_vtvc_title,#serpvidans.vsacf .mmlist .mc_vtvc
.mc_vtvc_meta
.mc_vtvc_title{color:var(--smtc-ctrl-link-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{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:var(--mai-smtc-padding-card-default)}.vsacf .b_title
.mmtitle{font:var(--bing-smtc-text-global-subtitle1-strong);margin-bottom:0}.vsacf .b_title .mmtitle
a::after{content:"";margin:5px 5px 0 0;border-top:2px solid
var(--smtc-foreground-content-neutral-primary);border-right:2px solid
var(--smtc-foreground-content-neutral-primary);background-size:7px
7px;width:7px;height:7px;transform:rotate(45deg);display:inline-block;margin-left:4px}#serpvidans.vsacf
.b_title .mmtitle{margin-bottom:0}#serpvidans.vsacf .b_title .mmtitle
a{color:var(--smtc-foreground-content-neutral-primary)}#serpvidans.vsacf .cardless.mmlist
.mc_vtvc_con_rc,#serpvidans.vsacf .cardless.mmlist .mc_vtvc_th{height:auto}#serpvidans.vsacf
.vsb_tr_c.va_tt{margin:0}#serpvidans.vsacf .vtbc .mv_vtvc_play,#serpvidans.vsacf .vtbc
.mv_vtvc_play_ext{position:static}#serpvidans.vsacf .va_tt
.mc_vtvc_ban_lo{display:block}#serpvidans.vsacf
.mc_bc{width:auto;border-radius:var(--smtc-ctrl-badge-sm-corner);padding:var(--smtc-padding-ctrl-text-side)
var(--smtc-gap-between-content-xx-small)}#serpvidans.vsacf .rmts .mc_bc
ems{display:none}#serpvidans.vsacf a.vsb_tr_t{color:var(--smtc-foreground-content-neutral-primary)}.vsacf
.va_tt .vsb_tr_chd .mc_vtvc_th_dock.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%)}.vsacf .va_tt a.vsb_tr_t{padding:0
20px;font:var(--acf-font-title-2-strong)}.vsacf .va_tt .vsb_tr_chd .mc_vtvc .mc_vtvc_meta,.vsacf .va_tt
.vsb_tr_chd .mc_vtvc .mc_vtvc_title{color:var(--mai-smtc-foreground-ctrl-on-image-rest)}.vsacf
span.vcmt_ctt{font:var(--bing-smtc-text-global-caption2);margin:var(--smtc-gap-between-content-xx-small) 0
0;height:16px}#serpvidans.vsacf .vsb_tr_chd .mc_vtvc_tot .mc_vtvc_title
strong{font-size:14px;line-height:20px;display:unset}#serpvidans.vsacf .va_tt .b_sldrp
.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
nnt: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
.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}.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
mmlist .mc_bc{padding:2px 8px;line-height:14px;border-radius:2px;font-weight:normal}.mc_vtvc:hover
.mc_vtvc_title{text-decoration:underline}.mmsi{height:16px;width:16px;position:relative;top:5px;padding-ri
ght:var(--smtc-gap-between-content-xx-small)}.mmsi-microsoftnews,.mmsi-msn{top:3px}.mmgrid>div{widt
h: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;margin-bottom:16px}#serpvidansrr #vidans2 .b_videocard
.video_metadata{max-width:auto;padding:12px 16px}#serpvidansrr #vidans2
.b_videocard{margin-bottom:12px;box-shadow:0 0 1px rgba(0,0,0,.05),0 2px 3px
rgba(0,0,0,.1);border-radius:6px}#serpvidansrr .b_rich{padding-top:0}#serpvidansrr #vidans2
.videoPlayer{border-radius:6px 6px 0 0;overflow:hidden}#serpvidansrr #vidans2 .b_videocard
.video_metadata>h3{white-space:nowrap;overflow:hidden;text-overflow:ellipsis;-webkit-line-clamp:1;line-he
ight:15px;height:15px;font-size:13px;color:#000;margin-bottom:20px;font-family:"Arial",Helvetica,Sans-Seri
f;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 12V Full Bridge InverterWatch video9:42Arduino Uno 12V to 220 V Inverter
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SG3525 PWM IC and Full H-Bridge Mosfet Driver ElectroBUFF39.2K viewsSep 28, 2020Watch 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}#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-im
age-collage{display:-webkit-box;display:-webkit-flex;display:-moz-flex;display:-ms-flexbox;display:flex;-we
bkit-box-pack:justify;-ms-flex-pack:justify;justify-content:space-between;-webkit-box-align:stretch;-ms-flex-a
lign:stretch;align-items:stretch}.shop-image-collage+.shop-image-collage{margin-top:16px}.product-card-con
tent,.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-heig
ht: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-visib
le{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;tr
ansition: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
```



```
merce-ui-product-card-medium--hoverable
.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;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(--smtc-corner-card-rest)}
merce-ui-image-wrapper{height:100%;width:100%;border-radius:var(--smtc-corner-card-rest)}.cmuipcm-ima
```

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ge-cntr
merce-ui-image-wrapper__image-container
.cico{background:#fafafa;border-radius:var(--smtc-corner-card-rest);transition:transform .16s ease}
.cmuipcm-image-cntr merce-ui-image-wrapper__image-container .cico
img{mix-blend-mode:multiply}.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-rts{gap:var(--smtc-gap-between-content-xxx-small);font-size:13px;line-height:20px}.cmuipcm-rating-badge.rating-num{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:0 var(--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;max-height:44px}.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-cont
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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-su
ccess-tint-foreground)}.cmuipcm-price-row__og-price
.price-container[color="neutral"]{font:var(--bing-smtc-text-global-caption2);line-height:20px;text-decoration:l
ine-through;color:var(--bing-smtc-foreground-content-neutral-tertiary)}.cmuipcm-free-shipping{font-size:12p
x;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

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li:hover:not(.active){ width:4px;height:4px;background-color:#707070;color:#707070;margin:0 2px 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 .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%2036.1325C33.6028%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%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%2010.243L0.148728%206.60994C0.049576%206.50607%200%206.38305%200%206.2409C0%206.11515%200.0417482%206.00034%200.125245%205.89646C0.208741%205.79258%200.310502%205.72971%200.430528%205.70784L5.34638%204.96156L7.55382%202.287032C7.59556%202.199556%207.65558%202.131215%207.73386%202.0820092C7.81213%202.0328037%207.89824%202.00546728%207.99217%202.00808611%202.00817482%202.00246028%202.25832%202.0738083C8.34181%202.123014%202.40444%202.19408
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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.snrrt .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.snrrt .rs-list  
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.price-container__discount-label{margin-left:.2em;font-size:100%}
merce-ui-price{display:block}
Inverters R Us Corp Victron Phoenix Pure Sine Wave Power Inverters with VE.Direct They feature sophisticated full-bridge and toroidal transformer topology - which is suitable for powering sensitive electronics. They are overload, temperature, and short-circuit protected.
```

# 12v full bridge inverter

Source: <https://modernproducts.co.za/Mon-13-Jul-2020-10551.html>

Website: <https://modernproducts.co.za>

They feature sophisticated full-bridge and toroidal transformer topology - which is suitable for powering sensitive electronics. They are overload, temperature, and short-circuit protected.

This article is about the working operation and waveform of a single-phase full bridge inverter for R load, RL load and RLC load. The comparison of ...

Web: <https://modernproducts.co.za>

