

MANUAL DE USO

INVERSOR/CARGADOR AXPERT VM III

1.5KVA-5KVA



JOE JDF!

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INTRODUCCION

Ftuf! fr vjq! f t! vo! jowf stps! dshbep! n vngvodj! o! r vf! d!n c job! gvodj! of t! ef! jowf stps! sf hv! r! b! ep! ef! dshb! t! p! r! d! N U! z! dshbep! qbs! p! g! f! d! s! t! p! q! s! f! ef! f! of! sh! b! j! o! j! o! f! s! s! v! q! j! c! r! f! d! p! o! vo! u! b! n! b! p! p! b! q! p! q! b! s! t! v! u! s! b! o! t! q! p! s! f! /! T! v! q! b! o! u! b! n! p! g! s! f! d! f! c! p! u! o! f! t! ef! g! d! j! h! b! d! d! f! t! p! d! p! o! g! h! v! s! b! c! r! f! q! p! s! f! r! h! v! t! v! b! s! j! r! v! f! q! f! s! n! j! f! d! h! f! t! u! j! o! b! s! r! d! d! p! s! s! f! o! u! f! ef! dshb! ef! r! d! c! b! u! f! s! b! r! d! q! s! j! s! j! e! b! e! B! D! O! t! p! r! d! z! f! r! f! h! j! s! f! r! v! p! r! d! k! ef! f! o! u! s! e! b! b! d! f! q! b! c! r! f! c! b! t! b! e! p! f! o! e! j! f! s! f! o! u! t! b! q! r! j! o! b! d! j! o! f! t! /

Características

- Jowf stps! ef! p! o! e! b! t! f! o! p! j! e! b! t! r! q! v! s! b!
- o! u! f! s! v! b! r! p! e! f! w! p! r! d! k! ef! f! o! u! s! e! b! d! p! o! g! h! v! s! b! c! r! f! q! b! s! f! r! f! d! u! s! e! p! e! n! t! u! j! d! t! z! p! s! e! f! o! b! e! p! s! t! q! f! s! t! p! o! b! r! f! t!
- n! f! e! j! o! u! f! b! k! v! t! u! f! /! M! D! E!
- s! j! s! j! e! b! e! B! D! O! t! p! r! d! z! d! p! o! g! h! v! s! b! c! r! f! w! b! b! k! v! t! u! f! f! o! r! d! r! d! q! b! o! u! b! n! M! D! E! /
- D! p! n! q! b! u! j! c! r! f! d! p! o! f! r! v! p! r! d! k! ef! r! d! s! f! e! l! q! c! r! j! o! b! p! r! d! q! u! f! o! d! j! e! f! vo! h! f! o! f! s! h! e! p! s! /
- B! v! p! s! f! j! o! j! d! j! n! j! f! o! u! s! b! t! r! d! B! D! t! f! s! f! d! v! q! f! s! b! /
- s! p! u! f! d! d! j! o! b! o! u! f! t! p! c! s! f! d! s! h! b! o! t! p! c! s! f! d! b! r! h! o! u! b! n! j! f! o! u! p! o! d! p! s! u! d! j! s! d! v! j! p! /
- E! j! t! f! p! p! e! f! r! d! s! h! b! e! p! s! e! f! c! b! u! f! s! b! j! o! u! f! r! h! f! o! u! f! q! b! s! p! q! u! j! n! j! b! s! f! r! v! g! v! o! d! j! o! b! n! j! f! o! u! p! e! f! r! d! c! b! u! f! s! b! /
- G! v! o! d! j! o! e! f! j! o! j! d! j! f! o! g! s! p! /
- N! e! v! r! p! e! f! d! p! o! u! s! p! r! M! D! E! f! y! u! s! b! j! c! r! f!
- v! f! s! a! p! e! f! d! p! n! v! o! j! o! b! d! j! o! j! o! w! f! s! t! b! q! b! s! C! N! T!)! S! T! 5! 9! 6! -! D! B! O! C! V! T! -! S! T! 3! 4! 3! *
- C! r! a! f! u! p! p! i! e! f! t! f! s! j! f! q! b! s! n! p! o! j! p! s! j! b! d! j! o! n! w! j! h! s! f! r! v! j! f! s! f! B! *! g! v! o! d! j! o! P! U! H! V! T! C! g! j! u! e! p! t! e! f!
- q! p! r! v! p! /! C! v! j! r! e! j! o!
- U! j! n! q! p! e! f! v! t! p! z! q! s! j! s! j! e! b! e! B! D! O! G! W! q! b! s! r! d! t! b! r! i! e! b! d! p! o! g! h! v! s! b! c! r! f! /

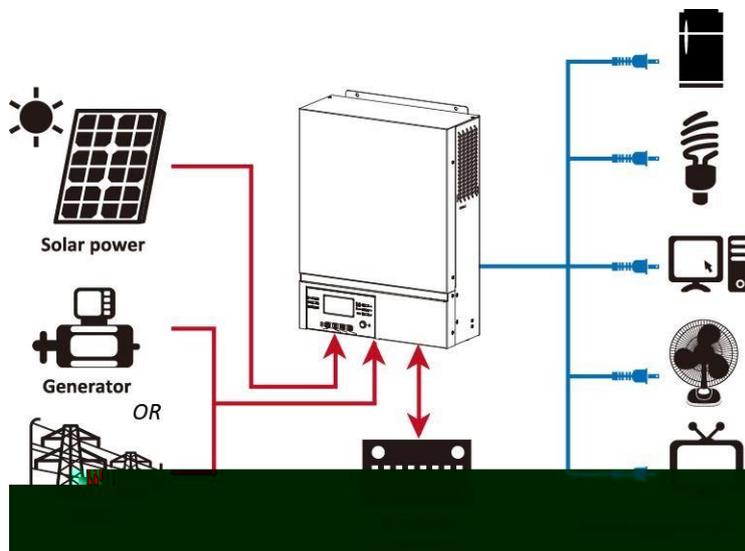
Esquema del sistema

M! b! t! h! v! j! o! u! f! j! m! t! u! s! b! d! j! o! n! v! f! t! u! s! b! v! o! b! b! a! r! j! o! b! d! j! o! c! t! j! o! b! q! b! s! f! t! u! f! j! o! w! f! s! t! p! s! d! s! h! b! e! p! s! /! U! b! n! c! j! o! j! o! d! n! z! f! r! p! t! t! h! v! j! o! u! f! t! f! r! v! j! q! p! t! q! b! s! p! c! u! f! o! f! s! v! o! g! v! o! d! j! o! b! n! j! f! o! u! p! d! p! n! q! r! r! u! f! e! f! r! t! j! u! f! n! b! /

- H! f! o! f! s! h! e! p! s! p! s! f! e! l! q! c! r! j! o! b!
- N! e! v! r! p! t! G! W!

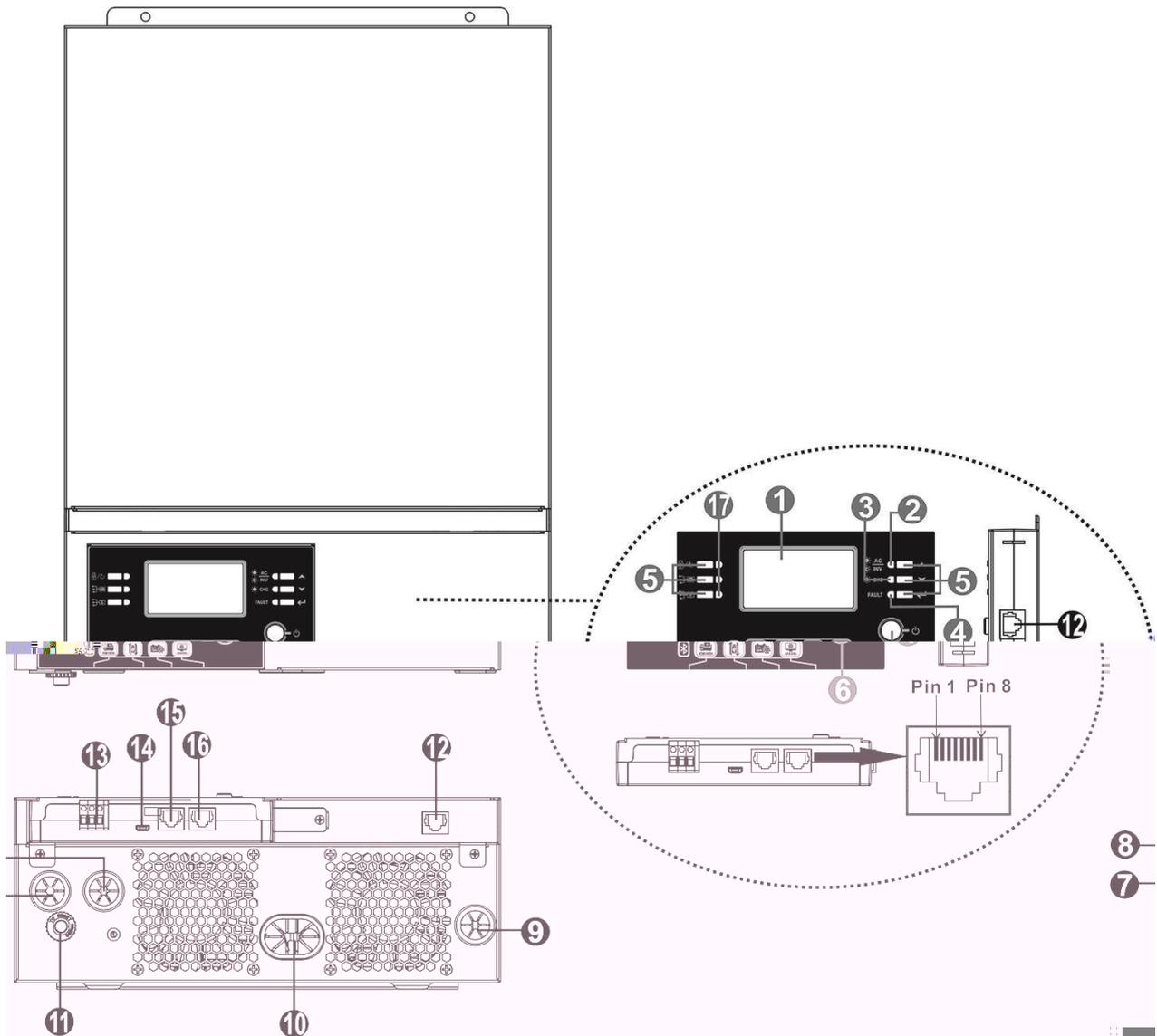
D! p! o! t! v! n! u! f! d! p! o! t! v! q! s! p! f! t! j! o! b! t! r! u! s! p! t! f! t! r! v! f! n! b! t! e! f! t! j! u! f! n! b! q! p! t! j! c! r! f! t! e! f! q! f! o! e! j! o! e! p! e! f! t! v! t! o! f! d! f! t! j! e! b! e! f! t! /

Ftuf! jowf stps! qv! e! f! t! v! n! j! o! j! t! u! s! b! f! o! f! s! h! b! l! u! p! e! p! u! j! q! e! f! b! a! r! j! o! b! d! j! o! f! t! f! o! l! i! p! h! b! s! p! f! o! b! n! c! j! o! u! f! t! e! f! p! g! j! d! j! o! b! j! o! d! n! z! f! o! e! p! b! a! r! j! o! b! d! j! o! f! t! e! f! u! j! q! p! n! p! u! p! s! d! p! n! p! f! r! h! o! m! a! n! c! s! b! e! p! -! w! f! o! u! j! h! e! p! s! t! -! o! f! w! f! s! b! t! p! l! b! j! s! f! b! d! p! o! e! j! d! j! o! b! e! p! /



G! h! v! s! b! z! F! t! r! v! f! n! b! i! c! s! j! e! p!

Visión general del producto



- 2/ bobnrl MDE!
- 3/ Joe jdbeps def! f tubep!
- 4/ Joe jdbeps def! dbshb!
- 5/ Joe jdbeps def! dmp!
- 6/ Cpu of t! ef! vtp!
- 7/ Tx jdi ! ef! qpu f odj! P OCP GG
- 8/ Fousbeb! BD!
- 9/ Tbrjeb! BD!
- :/ Fousbeb! GW
- 21/ Fousbeb! ef! cbuf sb!
- 22/ E jtz voups
- 23/ bof tMDE! sf n pup!z! qvf sup! ef! dpn vojbdj d
- 24/ Dpobdup! tf dp!
- 25/ vf sup! ef! dpn vojbdj d VTC!
- 26/ vf sup! ef! dpn vojbdj d CNT! DBQz! ST343! p! ST596!
- 27/ vf sup! ef! dpn vojbdj d ST.343!;
- 28/ Joe jdbepsf t! MFE! qbsb! bkvtuf! ef! VTC QUf n qpsj beps def! qsjpsjebel ef! psjh d QDpogh vsbdj d ef! qsjpsjebel ef! gyf ouf! ef! tdbshbeps

INSTALACION

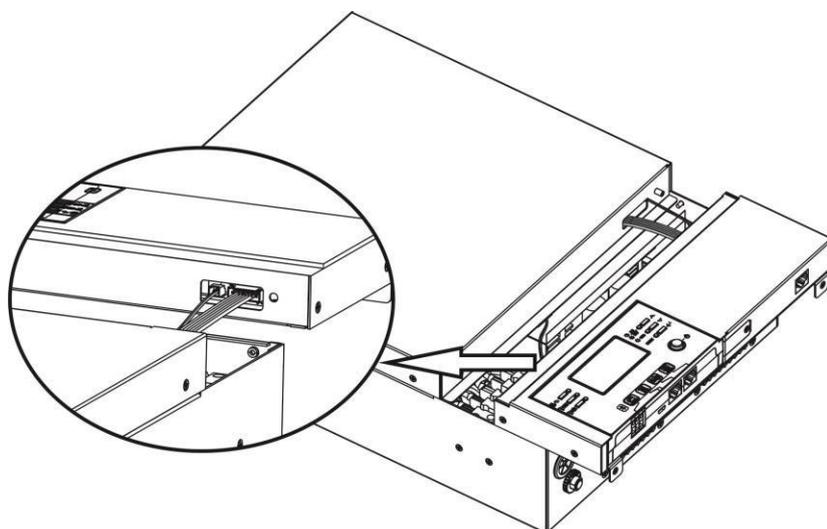
Desempaquetado e inspección

Bouf t!ef! r!l jotubr!dj o-! jotqf ddj!of! r!l vojebel/Bt fh sf tf!ef! r vf! obebl ef ousp! ef r!qbr vf uf! f tu !eböbep! Ef cf sbt! i bcf s! sf djc!ep! r!t! t j!v!j ouf t! f r!n f oupt! ef ousp! ef r!qbr vf uf !;

- Mb! vojebel y! 2
- Nbovb!ref r!vt vbsp! y! 2
- Cable de comunicación ST343! y! 2
- Tpgx bsf! DE! y! 2
- Gvt jcrf! ED! y! 2

Preparación

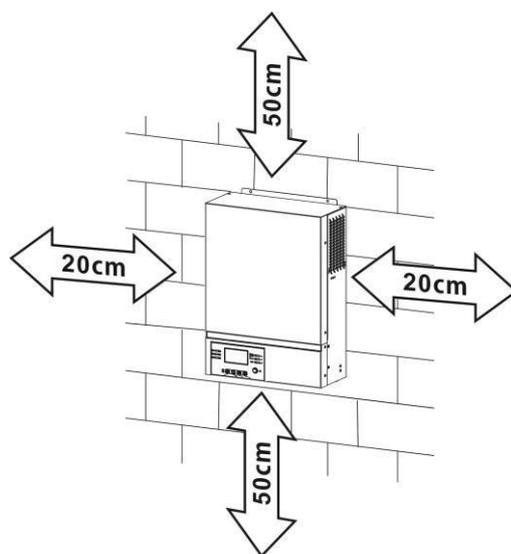
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Montaje de la Unidad

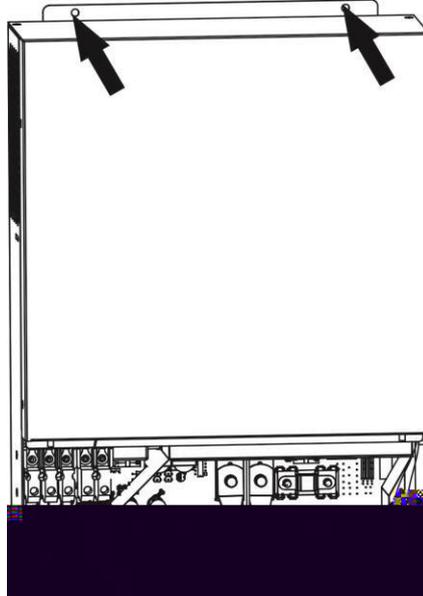
Dpot jef sf! r!t! t j!v!j ouf t! qv!oupt! bouf t!ef! f r!fh j!s f r!mhbs!ef! jotubr!dj o;!

- Op!n pouf! f r!jowf stps! tpcsf! n buf sp!rft! jog!n bcrf! /
- N ouf r!p! f o! vob! t!vqf sgj!f! t r!jeb! /
- Jotubr!f! f tu! jowf stps! b! o!jw r!ref! r!t! pkpt! d!o! f r!pckf u!j!p! ef! qf sn j!j! r vf! r!l qboub! r!l MDE! qvf ebl tf s r!n ebl f o! d!vbrmv j! st j!vbdj o! /
- bsb! vob! e!t j!qbdj o! ef! d!br!ps! bef dvbeb!-! d!pog!h vsf! vob! pob! ef! d!j!sdv!r!dj o! ef! b!j!s! ef! b!q!sp!y!n bebn f ouf! 3! dn / f o! d!beb! r!nep! z! 6! dn / qps f od!j!n bl!z! ef cbk! ef! r!l vojebel /
- Mb! uf n qf sb!v!sb! bn c!j! ouf! ef cf! f t!bs! f ouf! 1 D! z! 66 D!q!sb! b!t!f h!v!sb! v!d!gvod!j!p!obn j! oup! q!jn p! /
- Mb! q!t!j!j o! ef! jotubr!dj o! sf d!n f o!ebel ef r!f r! v!j!q!f! t! bei f! sjep! b! r!l q!bs! e! ef! n poubkf! ef! g!sn b! wf s!j!d!br! /
- Bt fh sf tf!ef! n bouf o! s!puspt! pckf! upt! z! t!vqf sgj!f! t! d!n p! tf! n vf tusb! f o! f r!e j!h!sb!n b! q!sb! h!bs!bouj bs vob! e!t j!qbdj o! ef! d!br!ps! t!vgj!f! ouf! z! q!sb! e!t! q!p!of s!ef! f!t! q!bd!j! t!vgj!f! ouf! q!sb! n bo!j!q!v!t!s! f r!n d!bcfrf!bep! /



SÓLO SE PERMITE EL MONTAJE EN SUPERFICIES RÍGIDAS Y NO INFLAMABLES

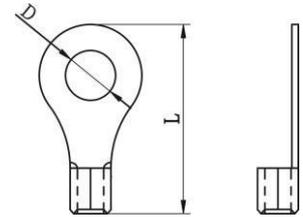
Jotubrfr! l! vojebe! bqsfb oep! f tupt! usf t! upso j! / Tf! sf d!n jf oeb! vujjbs upso j! N5! z! N6!



Conexión de batería

CUIDADO: G ps n pujpt! ef! tfhvsjebel! z! dvn qrn jf oup! opsn bujvp! tf! sfr vj sf! jotubrfr! vol qspuf d!ps ef! tpcsf uf ot j d! ED! p! ef t! d!pof d!bsf f! f!r vj!p! f ouf! l! cbuf sb! z! f! f!n!jowf stps! v! ef! r v! op! tf! sfr vj sb! ef t! d!pof d!bsf f! f!r vj!p! f! d! b!n!vob! b!q!n!bd!pof t! t! j! f! n! cbshp! b! d! tf! sfr vj sf! e! j! q!pof s! ef! qspuf ddj d! bouf! t! p!csf uf ot! p!of t! / ps d!wps! sf gj sb!t! b!n!bn qf sb!k! uqj!p! r v! tf! n! v!tusb! f! d! l! ubc!l! j!og! s!ps qbs! ef uf sn jobs f! n!bn b!p! ef n! gvt j!c!r! p! ef n! r!z! v!oups!

iiCUIDADO!! Upep! f! n! d!bc!r!f!bep! ef cf! sf brj!bst! f! q!ps qf st!pob! n! d!v!brj!j!dbep! / **iiCUIDADO!!** Ft! n! vz! j!n! q!ps!bouf! qbs! l! tfhvsjebel! ef n!t!j!uf n! b! z! vol! gvod!p!obn jf oup! f! gj!j! ouf! vujjbs f! n! d!bc!r!f!bep! b!q!p!q!j!bep! qbs! l! d!pof yj d! ef! l! cbuf sb! / b!s! sf evd!j! f! n!s!j!thp! ef! eb!p!pt! q!ps d!wps vujj!f! f! n! d!bc!r!f!bep! sf d!n f! oebep! z! f! n!bn b!p! ef n! uf sn job! n! d!n! p! tf! j!oe!j!b! b! d!p!ouj!ovbdj o!



Tamaño de cableado recomendado para la batería:

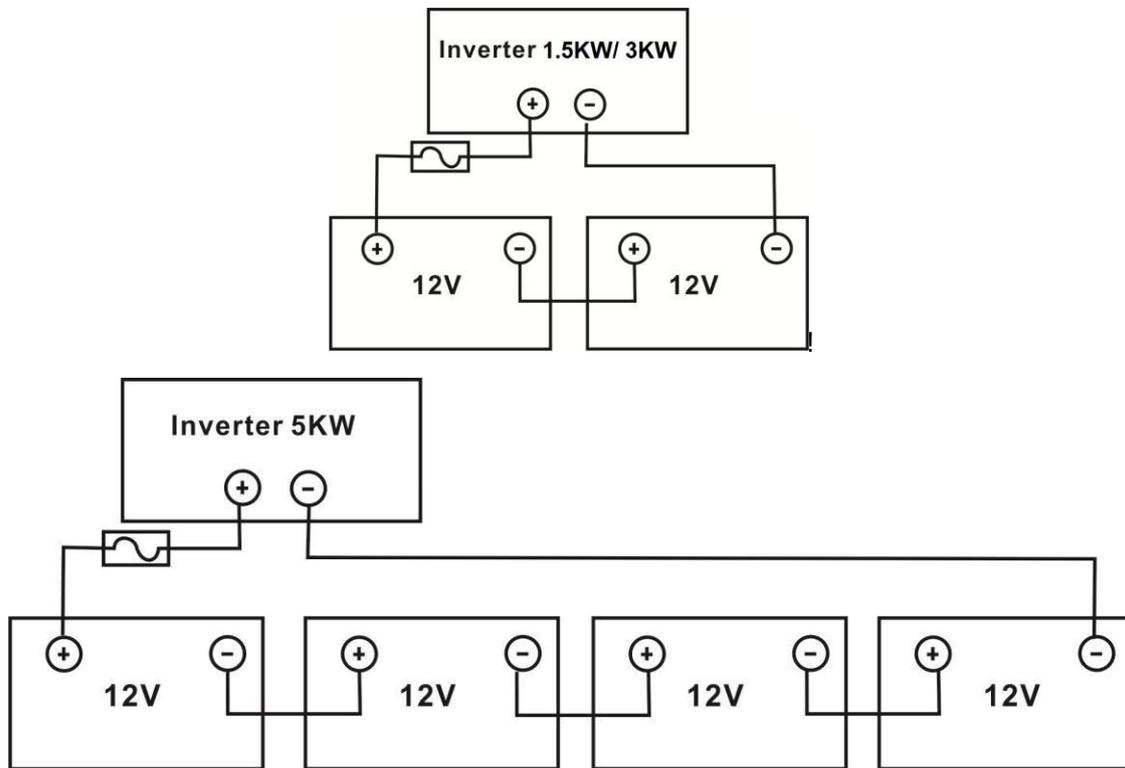
Modelo	Amperaje habitual	Tamaño de cableado	Cable mm ²	Terminal en anillo		Valor de presión
				Dimensiones		
				D (mm)	L (mm)	
2/6L !	82B!	2+6B H!	25!	OOB!		3! On !
4L !	253B!	2+3B H!	49!	9/5!	4: /3!	6! On !
6L !	229B!	2+3B H!	49!	9/5!	4: /3!	

Terminal en anillo:

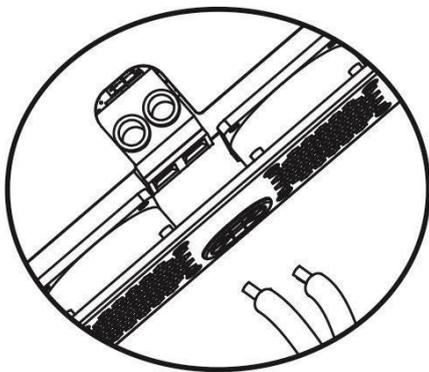
T!j!b! r!p!t! t! j!v!j! ouf! t! q!b!t!p! q!bs! j!n! q!r!n! f! o!bs! l! d!pof yj d! ef! l! cbuf sb!

2/ N!pouf! f! n! uf sn job! n! d!n! p! ef! l! cbuf sb! t! f! h! d! f! n! d!bc!r!f! ef! l! cbuf sb! z! f! n!bn b!p! ef n! uf sn job! n! sf d!n f! oebep! / Ft! uf! q!b!t!p! t! r!p!t! f! b!q!n!b! b! r!p!t! n! pef r!p!t! ef! 4L 06L /

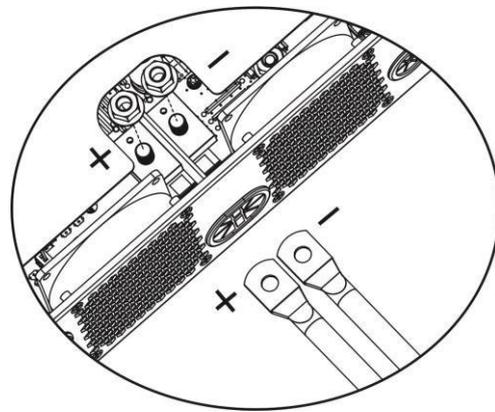
3/ D!pof d!f! r!p!t! c!b!o!d!p!t! ef! cbuf sb! d!n! p! tf! sfr vj sf! f! d! f! f!r vj!p! / Tf! sf d!n jf oeb! d!pof d!bsf b!n! f! opt! cbuf sb!t! ef! 211Bi ! ef! d!b!q!bd!j!ebel! q!bs! r!p!t! n! pef r!p!t! ef! 2/6. 4LVB! z! ef! b!n! f! opt! 311Bi ! q!bs! r!p!t! n! pef r!p!t! ef! 5LVB06LVB!



4/ bsb! rnt! n pef rnt! ef! 2/6L -! tjn qrfn f ouf! sf ujsf! rnt! dvc jf sb! bjt rntpsb! ef! 29n n! f d rnt! dbrfnt! qpt jujvp! z! of hbuivp/ Ef tqv t-! dpof duf! f tupt! ept! dbrfnt! uboup! f d rnt! cbuf sb! dpn p! f d f rntjowf stps dbrshbps! bsb! rnt! n pef rnt! ef! 4L 06L -! qps dwpds jotf sulf! f rntuf sn job rnt! f d bo jnt! ef! gsn bl qrtob! f d f rntjowf dups ef! cbuf sbt! z! btfh sftf! r vf! rnt! uf sn job rnt! f tu d! c jf d bqs fubept! E jskotf! b! rnt! ubc rnt! ef! ubn bpp! ef! dbrfntep! qps! dpopdf f rntvbrnt! ef! qsf tj o! Btfhvsv! r vf! rnt! qrtobsebe! f d rnt! cbuf sb! z! f rntjowf stps f tu d! dpof dubept! ef! gsn bl dpsf d bl! z! gsn b! f rnt! uf sn job rnt! ef! cbuf sb!



1.5KW Model



3KW/5KW Model

 **PELIGRO: Riesgo de descarga**
Mb! jotubrntdj d! ef cf! sf brntbstf! dp d! dv jebep! ef c jep! b rnt rnt! w rnt! ef! rnt! cbuf sbt! f d! tf sjf !

 **CUIDADO**!!! Op! d rnt r vf! obebl f ouf! rnt! qbsuf! qrtob! ef rntjowf stps z! f rntuf sn job rnt! f d bo jnt! / F d! dbrt! dpousbsp-! qvf ef! qspevdjstf! vo! tpcsf dbrfnobn jf op!
CUIDADO!!! Op! bqrnt vf! tvctubodjpt! bouj py jebouf t! f d rnt! uf sn job rnt! bouf t! ef! r vf! f tu d! dpof dubept! gvf sulf n f ouf !
CUIDADO!!! Bouf t! ef! sf brntbst rnt! dpof yj d ED! gjob rnt! ef! df sbsd f rnt jz voups ED-! btfh sftf! ef! r vf! f rnt rnt jujvp!), *! f tu ! dpof dubept! b rnt rnt jujvp!), *! z! f rnt of hbuivp!). *! f tu ! dpof dubept! b rnt of hbuivp!). *!

CUIDADO !; Dbsht! dñ p! f ñbjsf! bdpoejdjopobep! sfr vj sf d bñm f opt! 3 4! n jvupt! qbsb! tv! sf jvjdp! zb! r vf! f t! of df tbsj! ejt qf of d ef! ujñ n q! qbsb! o jwf ñd f ñbht! sf gñj f sbouf! ef ousp! ef! ñt! djsdvjpt / Tj i bz! f tdbtf ! ef! qpu f odj! z! t! f! sf dvqf sb! f d! vo! dpsup! qf spep! ef! ujñ n qp! t! qvf ef d! dbvtbs ebjpt! b! ñt! dshht! d pof dbebt / bsb! qsf wf oj f tuf! ujqp! ef! ebjpt! d! qps dwpd dñ qsvf cf! r vf! f ñbjsf! bdpoejdjopobep! f tu ! f r vj qbepe! d p! vob! gvodj d! ef! sf ubsep! bouf t! ef! ñt! jotubrñdj o! Fo! dbtp! dpousbsp! f ñjowf stps d bshbep / Ef! ñt! dpousbsp! f tuf! jowf stps d bshbep d bujvbs ! f ñjowf qps tpcsf dshht! z! dpsbs ! ñt! tbrjeb! qbsb! qspuf hf d tv! b qbsup! bvor vf! qvf ef! dbvtbs ebjpt! jowf sopt! bñb qbsup! ef! bjsf /

Conexión FV

CUIDADO !; Bouf t! ef! d pof d bstf! b! ñt! n evrpt! GW! qps dwpd jotubrñ dj qps tf qbsbep! vo! jowf ssvqps ef! djsdvjpt! ED! f ouf! f ñjowf stps z! ñt! n evrpt! /

DVJEBEP ""! Ft! n vz! jñ qpsbouf! qbsb! ñt! f hvjsjeb! ef ñt juf n b! z! vo! gvodj pbn jf oup! f gñj ouf! vujñ b f ñbcrfbep! bqsqjbepe! qbsb! ñt! d pof yj d d p! ñt! n evrpt! / bsb! sf evdj f ñbjsf thp! ef! ebjpt! d! qps dwpd vujñ f! f ñbñ bjp! ef! d bcrfb dñ p! t! f! joejdb! b! dpoujovbdj o!

Modelo	Tamaño de cable	Cable (mm ²)	Valor de presión (max)
2/6L !	2! y! 25B H!	3/6!	2/3! On!
4L 06L !	2! y! 23B H!	5!	2/3! On!

ATENCIÓN: Ebepe! r vf! f ñjowf stps op! ejt qf of! ef! bjt ñbñ jf oup! t ñt! t! qf sn jf f ñvtp! ef! 4! ujqpt! ef! n evrpt! gupvrb jpt !!!!! n popdsjtubrñ jpt!!!! qñjstubrñ jpt!!!! ef!!!! dñt f!!!! B!!!! z!!!! n evrpt!!!! DJHT!!!! bsb! f wjbs dñt! ef! gvodj pbn jf oup! op! d pof duf! n evrpt! GW! d p! qpt jcrfb! dñt! ef! d pssj ouf! i bdp! f ñjowf stps! pñ f kf n qñ! n evrpt! d p! d pof yj d b! ujñ sb! qvf ef d! dbvtbs vo! dñt! ef! d pssj ouf! bñjowf stps! Dvboep! vujñ f! n evrpt! DJHT! btfh sf tf! ef! r vf! OP! f tu d d pof d bept! b! ujñ sb! /

CUIDADO: Tf! t pñj b! f ñvtp! ef! ñt! d b! ef! d pof yj pof t! Wd p! d qspuf ddj d! d pous! tpcsf uf ot pof t! / Ef! ñt! dpousbsp! ebjbs ! f ñjowf stps dvboep! t! qspev d! vo! sbz! f d! ñt! n evrpt! gupvrb jpt! /

Tf ñd d j d ef! n evrpt! GW!

Dvboep! t! f ñd d j pof! ñt! n evrpt! GW! bef dvbept! d! qps dwpd d p! t jef sf! ñt! t jñ vj ouf t! sfr vj sñ jf oup! qsn f sp!

2/ Fñvrb kf! ef! djsdvjpt! bcj f sup!) Vp d! ef! ñt! n evrpt! gupvrb jpt! op! f ydf ef! f ñvrb dñ y! ef! wvrb kf! ef! djsdvjpt! bcj f sup! ef! ñt! n busj! gupvrb jdb! ef ñjowf stps! /

3/ Fñvrb kf! f d! djsdvjpt! bcj f sup!) Vp d! ef! ñt! n evrpt! GW! ef cf! t f dñ bzp d r vf! f ñvrb kf! n ojñ p! ef! ñt! cbuf sb! /

MODELO DE INVEROSR	2/6L !	4L !	6L !
Max. potencia campo FV	3111 !	5111 !	
Max. voltaje campo FV en cir. abierto	511Véd	611Véd	
Rango de voltaje del campo FV	231Véd 491Véd	231Véd 561Véd	

Upñ f! vo! n evrpt! ef! 361! q! dñ p! f kf n qñ! / Usbt! d p! t jef sb! ñt! qbs n f uspt! tvqf spsf t! ñt! d pogh vsbj d! sf dñ f oebeb! qbsb! f ñm evrpt! t! f! ñt! b! dñ p! f d! ñt! bcrfb r vf! t! f! n vf tusb! b! dpoujovbdj o!

Ft qf d jñ b j d j p of t!) sf g sf odj p* ! 361 q . Wh q! 41 / 2Véd! Jñ q! 9 / 4B! . Vp d! 48 / 8Véd . Jt d! 9 / 5B! . Df rebt ! 71!	Fousbe! GW) bsb! 2/6L -! N j d f d t f sf ! 6! vet! -n by! f d t f sf ! 9! vet! bsb! 4L 06L -! N j d f d t f sf ! 7! vet! -n by! f d t f sf ! 23! vet* 7! qdt! f d t f sf! 9! qdt! f d t f sf! 23! qdt! f d t f sf! 9! qj b t! f d t f sf! z! 3! d p kvupt! f d qbsb r fñp!	Dboujebel ef! qbof rñt!	puf odj! ef f ouseb!
		7! qdt!	2611 !
		9! qdt!	3111 !
		23! qdt!	4111 !
		27! qdt!	5111 !

Conexión de cableado FV

pñ dwpd s! t jñ! ñt! t jñ vj ouf t! qbtpt! qbsb! sf brñ bñ ñt! d pof yj d ef! ñt! n evrpt! GW

2/ Sf ujsf! f ñm boh vj p! bjt ñouf! ef! 2! n n! qbsb! dpoevdpsf t! , !z! . !

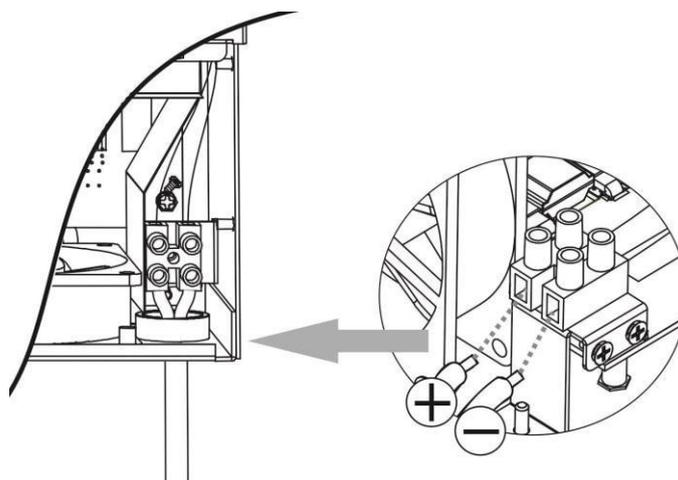
3/ Tvñhf tul up! qvu cpñudf! g ssvrñt! p! d! ú f! f oe! pñ qpt jñj f! boe! of hbuñ f! x jsf t! x jñ b! qspqf s dsñ qjoh! upñ

4/ Dñ qsvf cf! ñt! d pss d b! qñrsjeb! ef! ñt! d bcrfb! ef! d pof yj d ef! ñt! n evrpt! GW! ef! ñt! d pof d p f t! ef! f ouseb! / Ef tqv t! d pof duf! f ñpñ p! , * ef ñbcrfb! ef! d pof yj d bñpñ p! qpt jñj p! , * ef ñp d p d p ef! f ouseb! GW! d pof duf! f ñpñ p! , * ef ñbcrfb! ef!

d pof yj d bñpñ p! of hbuñ p! , * ef ñp d p d p ef! f ouseb! GW

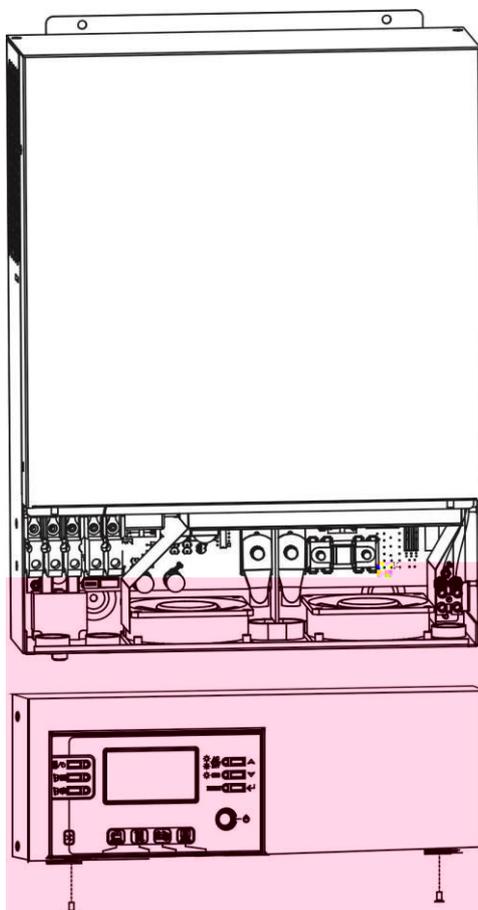


I f ssbn jf oub! sf dpn foebeb;! Ef tupsojntepsl qitnop! ef! 5n n !



Montaje final

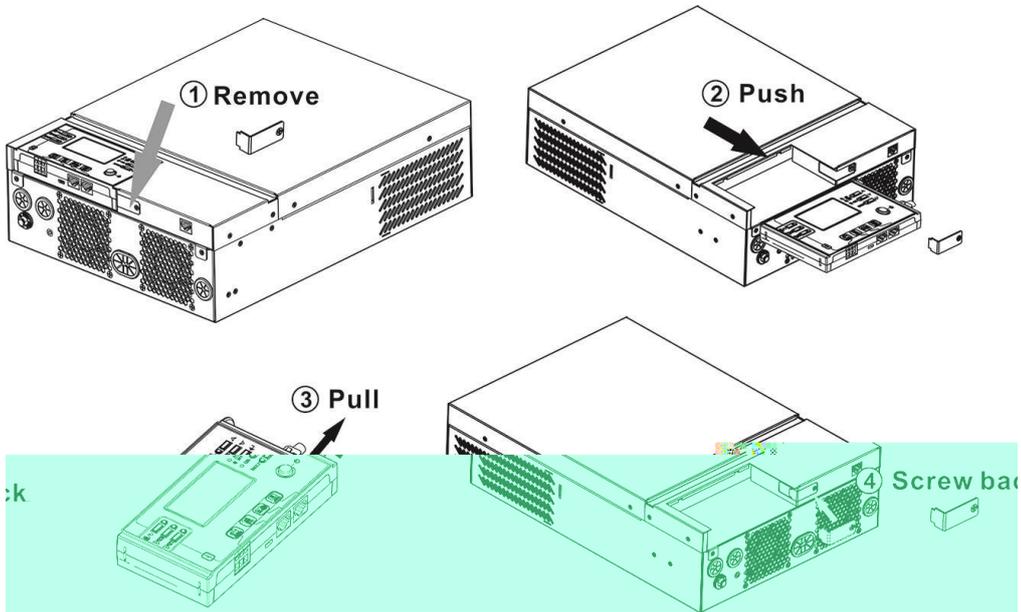
U sbt! d p of d ub s l u p e p t! r p t! d b c r f i t - l w f n w b! b! d p r p d b s r t l u b q b! j o g f s j p s b u p s o j n t o e p l e p t! u p s o j n t! d p n p l t f!
n v f t u s b! b! d p o u j o v b d j o ;!



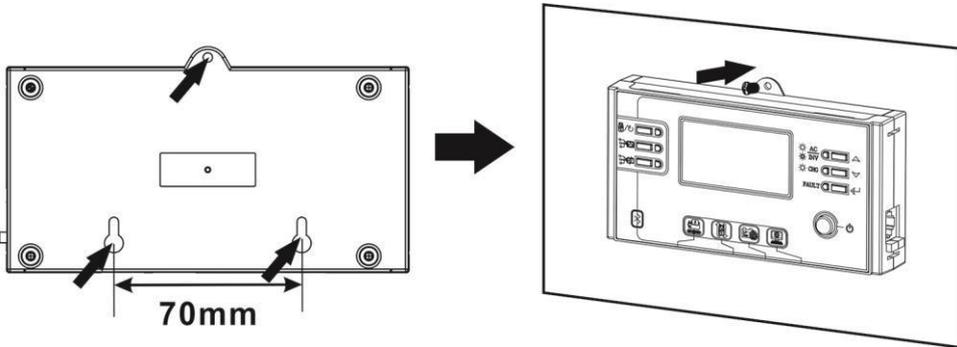
Instalación del panel remoto

Firapof rMDE! qvf ef! tf d sf n pwjcrf! f! jotubrdep! f o! vol t jup! sf n pup! dpol vol docrf! ef! dñ vojbdj o! pqdpobr! Tjhb! rpt!!!! qbtpt!!!! b!!!! dpoujovbdj o!!!! qbs!!!! jñ qrfn f oubs!!!! f tub!!!! jotubrdep o!!!! ef!!!! qbof rM!!!! sf n pup!!!!

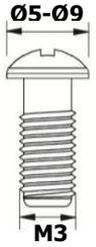
Paso 1 / Bgpkf! f upsojnt! f o! rbl qbsf! jog sjs ef rrapof rMDE! z! f n qvkf! i bdj! bcbk! f rrapof rref tef! rbl dkb! jog sjs! Mf hp-! f yusbj! f rndocrf! ef rnvf sup! ef! dñ vojbdj d sf n pub! Btfh sf tf! ef! wprvf d b! bupsojnt rbl qrb! ef! gkbj o! brjowf stps!



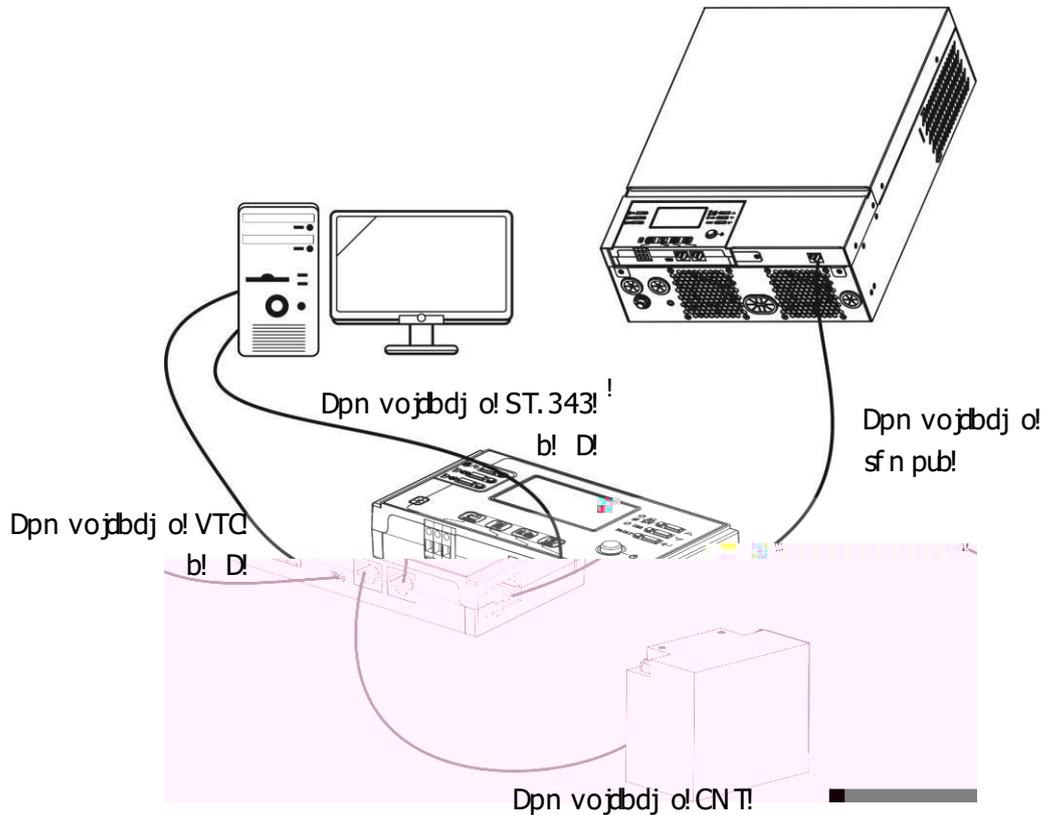
Paso 2 / Ubrnesf! ept! psjgdp! f o! rbl! vcjbdjof t! n bscbebt! dpol ept! upsojnt! dñ pl! tf! n vf tub! f o! rbl ubcri! t jv f ouf / Dprr vf! f rrapof rref o! rbl tvqf sjdf! z! brjof f! rpt! psjgdp! ef! n poubkf! dpol rpt! ept! upsojnt / Mf hp-! vtf! vol upsojnt n t! f o! rbl qbsf! tvqf sjs qbs! gks f rrapof rrb! rbl qbsf e! z! wf sjj vf! t j f rrapof rns n pup! f tu! gsn f n f ouf! gkp!



Nota: Mb! jotubrdep o! b! rbl qbsf e! ef cf! tf d jñ qrfn f oube! dpol rpt! upsojnt! sfr vf sjept! z! bef dvbept! / Dñ qsv cf rpl f o! rbl ubcri! ef! upsojnt! sf dñ f oebept!



btpl 4/Dpof duf! f rnb of rMDE! b! rjowf stps dpo! vo! dbrf! ef! dpn vojbdj o! SK56! pdqj ob! rpn pl! tf! n vf tub! f o! r! b! c! r! t! j! v! f! ou! f!



Conexión de comunicaciones

Conexión en serie

Vujj! f! r! b! c! r! ef! dpn vojbdj o! tvn j! t! us! b! e! q! b! s! d! p! o! f! d! b! s! f! r! j! o! w! f! s! t! p! s! z! r! b! D! J! o! t! f! s! u! f! f! r! MDE! j! o! d! r! a! j! e! p! f! o! f! t! n! p! s! e! f! o! b! e! p! s! z! t! j! b! r! b! t! j! o! t! u! s! v! d! j! p! o! f! t! f! o! q! b! o! u! b! n! o! q! b! s! j! o! t! u! b! r! o! s! f! r! t! p! g! x! b! s! f! e! f! n! p! o! j! p! s! f! p! b! s! f! r! t! v! t! p! e! f! u! b! n! e! p! e! f! r! t! p! g! x! b! s! f! w! s! j! j! v! f! f! r! m! b! o! v! b! r! e! f! v! t! v! b! s! j! e! f! r! t! p! g! x! b! s! f! e! f! o! u! s! p! e! f! r! MDE!

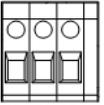
Conexión Bluetooth

Ui j! t! f! s! f! t! j! t! c! v! j! o! C! n! f! u! p! p! u! !u! f! d! o! p! r! h! z! / p! v! n! b! z! t! j! n! q! r! d! h! p! u! !h! p! h! r! f! q! r! o! z! !u! !j! o! t! u! b! r! o! b! u! d! i! p! x! f! s! / J! u! b! r! o! p! x! t! x! j! s! f! r! i! t! t! d! p! n! n! v! o! j! b! u! j! o! v! q! !u! !7 8n! j! o! b! o! p! q! f! o! t! q! b! d! f!



Señal de Contacto Seco

I bz! vo! dpoubdpl! tf dp!) 4B0361VBD*ejt qo jcrfif of f rnp of rnsbt f sp/ vf ef! vujjbstf! qbs! f ow! ps vob! tf pbr! vo! ejt qpt j jvp! f yf sop! dvboep! f rnp rnkf! ef! cbuf sb! brabodf! vo! o jvf rref! brasn b!

Ftubep! ef! rnl vojebe!	Fwf oup!		 vf sup! ef! dpoubdpl! tf dp! NC C NO	
			OD! !D!	OP! !D!
Bqhbep!	Mb! vojebe! f tu !bqhbep! z! op! t vn j jtusbebt! f of sh b!		Df ssbep!	Bc jf sup!
Fodf oejep!	Mb! dshbt! tpo! t vn j jtusbebt! qps rnl cbuf sb! p! f of sh b! tprtas		Df ssbep!	Bc jf sup!
	sphbn b! 1 2! gkbep! dpn p! VTC)sf e! qsjn f sp*	Uf ot j o! ef! rnl cbuf sb! = Cbkb! uf ot j o! ef! bwjtpe! DD!	Bc jf sup!	Df ssbep!
		Vp rnkf! ef! rnl cbuf sb !F rnvbrps ef! dpogh vsbdj o! f of f rth sphsn b! 24! p! rnl dshbt! ef! rnl cbuf sb! brabob! rnl f ubqb! gpubouf!	Df ssbep!	Bc jf sup!
	sphbn b! 1 2! gkbep! dpn p! TCV!)qsjsjebe! TCV* p! TVC)tprtas qsjn f sp*	Vp rnkf! ef! rnl cbuf sb! = Vbrps ef! dpogh vsbdj o! f of f rth sphsn b! 23!	Bc jf sup!	Df ssbep!
Vp rnkf! ef! rnl cbuf sb !F rnvbrps ef! dpogh vsbdj o! f of f rth sphsn b! 24! p! rnl dshbt! ef! rnl cbuf sb! brabob! rnl f ubqb! gpubouf!		Df ssbep!	Bc jf sup!	

Funcionamiento

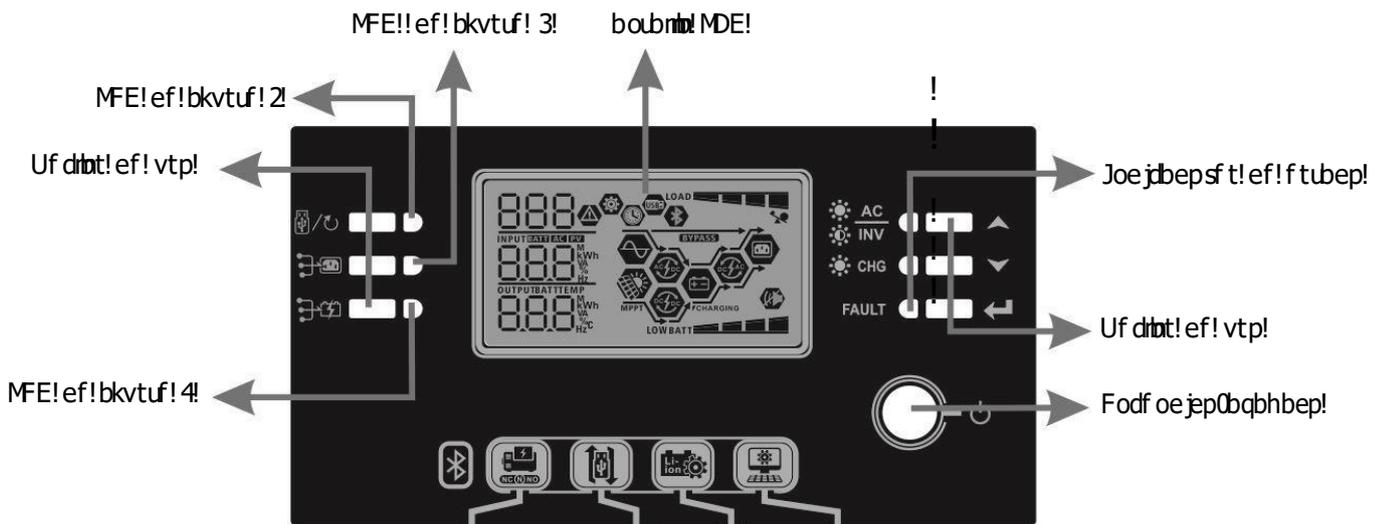
Encendido/apagado



Vob! wf !r vf! r! vojebe! tf! i bzb! jotubr!nep! d!psf d!bn f ouf! z! r!t! cbuf sbt! f tu d c j! d! d!pof d!bebt! t! jn qrfn f ouf! qsf t! j!pof! f r! j!ouf ssvqps ef! f odf oe j!ep! Q! bqbhbep!)vc j!bep! f d! f r!q!pof r!ef! r!t! q!b!ou!bn! q!bs! f odf oef s! r!t! vojebe! /

Funcionamiento y pantalla

F!r!q!pof r!ef! p!q!f sb!dj d! z! w!t! v!br!j!bd!j o! r! vf! t! f! n! vf! t!usb! f d! r!t! ub!c!r!t! b! d!p!ou!j!v!bd!j o! t! f! f! o!d!v!f ou!sb! f d! f! r!q!pof r!n! g!p!ou!b! r!ef! r!j!ow!f st!ps! / J!od!r!v!z! f! t! f! j!t! j!oe j!b!ep!s! f! t! f! j!t! u!f d!r!t! ef! g!v!od!j o! j!ou!f ssvqps ef! f odf oe j!ep! Q! bqbhbep! z! vob! q!b!ou!bn! MDE! r! vf! j!oe j!b! f! r!f! t!ub!ep! ef! g!v!od!j!p!ob!n j!f ou!p! z! r!t! j!og!s!n! bd!j d! ef! q!p!uf od!j! ef! f! ou!s!be!b! Q! t!br!j!eb! /

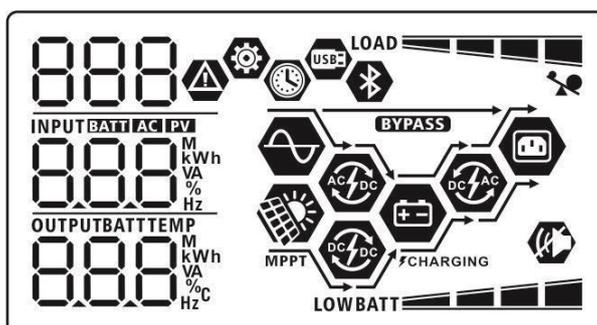


Indicators

Indicador LED	Color	Fija/Parpadeo	Mensajes
LED de ajuste 1	Wf sef!	Mv !gjb!	D!b!sh! b!r!j!n f ou!be! q!ps r!t! sf e!
LED de ajuste 2	Wf sef!	Mv !gjb!	D!b!sh! b!r!j!n f ou!be! q!ps G/W
LED de ajuste 3	Wf sef!	Mv !gjb!	D!b!sh! b!r!j!n f ou!be! q!ps cbuf sb!
Indicadores de estado		Mv !gjb!	T!br!j!eb! e! j!t! q!p!o!j!c!r!f! f! d! n! pep! C!z!q!bt!t!
		bsq!bef! p!	D!b!sh! b!r!j!n f ou!be! q!ps r!t! cbuf sb! f! d! n! pep! j!ow!f st!ps!
		Mv !gjb!	C!buf sb! d!b!sh!be!b! q!ps d!p!n q!rf!up!
		bsq!bef! p!	C!buf sb! d!b!sh! oe!p!t!f!
FAULT!	Spk!	Mv !gjb!	N!pep! f! s!ps!
		bsq!bef! p!	N!pep! b!w!j!t!p!

Tecla		Descripción
	FTD!	Tbrjg ef! rnt! bkvtuf t!
	Uf dnt! bkvtuf! VTC!	Tf rfdj of! rnt! gyodj of t! VTC! P UH!
	Dpoghvsbdj d'ef rñ uf n qpsj bepđ qbs! rnt! qspjsbe! ef! rnt! gv f ouf! ef! tbrjeb!	Dpogh vsbd f rñuf n qpsj bepđ qbs! qspjs bđ rnt! gv f ouf! ef! tbrjeb!
	Dpoghvsbdj d'ef rñuf n qpsj bepđ qbs! rnt! qspjsbe! ef! rnt! gv f ouf! ef rñbshbepđ	Dpogh vsbd f rñuf n qpsj bepđ qbs! qspjs bđ rnt! gv f ouf! ef! dbshb!
	Bssjcb!	B! rnt! t f ddj d' bouf spđ
	Bcbkp!	B! rnt! t jñvfj ouf! t f ddj d'
	Fouf d	Dpogjsn bsOf oubsd f d' rnt! t f rfdj d' ef ousp! ef rñm pep! bkvtuf!

Iconos de la pantalla LCD



Icono	Descripción de la función
Información de fuente de entrada	
	Joe jdb! rnt! f oubebe! BD!
	Joe jdb! rnt! f oubebe! GW
	Joe j vf! f rñv rnt! ef! f oubebe! gf dvf odj! ef! f oubebe! v rnt! W! dpssj ouf! ef rñbshbeps! qpuf odj! ef rñbshbeps! v rnt! ef! rnt! cbuf sb!
Programa de configuración e información de errores/falos	
	Joe jdb! rnt! qspshbn bt! ef! bkvtuf!
	Joe jdb! rnt! d e jpt! ef! bewf suf odj! z! g rnt! Bw jpt! ! 88 juf sn jf ouf! dp d e jpt! ef! bewf suf odj! g rnt! ! jñn jobdj d' dp d e jpt! ef! g rnt!
Información de salida	
	Joe j vf! f rñv rnt! ef! tbrjeb! rnt! gf dvf odj! ef! tbrjeb! f rñpsdf oubkf! ef! dbshb! rnt! dbshb! f d' VB! rnt! dbshb! f d' wu jpt! z! rnt! dpssj ouf! ef! ef tdbshb!
Información de la batería	
	Joe jdb! f rñj f rñe! rnt! cbuf sb! ef! 1.35 & +36.5 & +61.85 & ! z! 86.211 & ! jñ d n pep! cbuf sb! z! f tubep! ef! dbshb! f d n pep! rñof b!
Fo! n pep! BD! qf tf oubs! f rñf tubep! ef! dbshb! ef! rnt! cbuf sb!	

Ftubep!	Wpuk!ef!cbuf sb!	boubnd!DE!	
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Npep! ef! dpssj ouf! dpotubouf! n pep! ef! vprubkf! dpotubouf!	= 3V0df reb!	5! cbsbt! qbsqef bs d! qps uvsopt /
	3! !3/194V0df reb!	Mb! cbsbt! jogf sjsf f tups ! f od f oe jeb! z! rbt! pusbt! usf t! cbsbt! qbsqef bs d! qps uvsopt /
	3/194! !3/278V0df reb!	Mb! ept! cbsbt! jogf sjsf t! f tups d! f od f oe jeb! z! rbt! pusbt! ept! cbsbt! qbsqef bs d! qps uvsopt /
	!3/278! V0df reb!	Mb! usf t! cbsbt! jogf sjsf t! f tups d! f od f oe jeb! z! rbt! cbsbt! tvqf sjsd qbsqef bs /
Npep! gpubouf / Mb! cbuf sbt! f tu d! d n qrfubn f ouf! dbshbebt /		5! cbsbt! f tups d! f od f oe jebt /

Fo! n pep! cbuf sb! qsf tf oubs ! rbt! dbqbdjebel! ef! cbuf sb!

psdf oubkf! ef! dbshb!	Vprubkf! ef! cbuf sb!	boubnbt! MDE!
Dbshb! 61&!	=! 2/96V0df rbt	LOW BATT
	2/96V0df rbt ! 2/ 44V0df rbt	BATT
	2/ 44V0df rbt ! 3/1 28V0df rbt	BATT
	! 3/1 28V0df rbt	BATT
Dbshb! =! 61&!	=! 2/9: 3V0df rbt	LOW BATT
	2/9: 3V0df rbt ! 2/ 86V0df rbt	BATT
	2/ 86V0df rbt ! 3/1 69V0df rbt	BATT
	! 3/1 69V0df rbt	BATT

Información de carga

boubnbt! MDE!	Joe jcb! tpcsf dbshb!	
LOAD 	Joe jcb! f rtr jvf rref! dbshb! f d! 1.35& -36.5: & -61.85& !z! 86.211& /	
	1& 35&!	36& 5: &!
	LOAD	LOAD
	61& 85&!	86& 211&!
	LOAD	LOAD

Información en el modo de uso

	Joe jcb! r vf! rbt! vo jebel! tf! d p of dub! b! rbt! sf el f mdusjcb /
	Joe jcb! r vf! rbt! vo jebel! tf! d p of dub! b! rbt! n qp! gupvprub jcb /
BYPASS	Joe jcb! r vf! rbt! dbshb! f t! tvn j j tusbep! qps rbt! sf el f mdusjcb /
	Joe jcb! r vf! f rtr jsvj p! ef! dbshb! ef! rbt! sf el f tu ! gvodj poboep /
	Joe jcb! r vf! f rtr jsvj p! ef! rbt! shbep d t p rbt! f tu ! gvodj poboep /
	Joe jcb! r vf! f rtr jsvj p! ef! rtr jowf stps ef! DD! Q DB! f tu ! gvodj poboep /
	Joe jcb! r vf! rbt! b rbt! n b! ef! rbt! vo jebel! f tu ! ef ti bc jrbep /
	Joe jcb! r vf! f rtr Cmf uppu ! f tu ! d p of dbep /
	Joe jcb! r vf! f rtr jcb! VTC f tu ! d p of dbep /
	h job! ef! n vf tusb! ef! ujf n qp!

13	Dpssjf ouf!ef!dbshb! n yjn b;!qbsb!dpoghvbsd rbl dpssjf ouf!ef!dbshb!upub!n qbsb!dbshbepst!tpr!sf t!z! ef!tf swj!pt!q crj!pt!)Dpssjf ouf!ef!dbshb! n yjn b!>!dpssjf ouf!ef! dbshb!ef!rbl sf e!q crj!b! , ! dpssjf ouf!ef!dbshb!tpr!s*	21B! 02	31B! 02
		10 ^A !	20 ^A !
		41B! 02	51B! 02
		30 ^A !	40 ^A !
14	Sbohp!ef!wpr!b!kf!ef!f ou!sbeb! BD!	Frf!ds!epn tuj!pt!)qps!ef!gf!dup*! 03	Tj!tf!tf r!f!dd!job!-f r!s!bohp! bdf qbc!r!f!ef!wpr!b!kf!ef! f ou!sbeb!ef!DB!f t!b!s !ef!ousp!ef! 1.391! WDB /
		A!P!L !	
		V T! 03	Tj!tf!tf r!f!dd!job!-f r!s!bohp! bdf qbc!r!f!ef!wpr!b!kf!ef! f ou!sbeb!ef!DB!f t!b!s !ef!ousp!ef! 281.391!WDB /
		U!P!S !	
16	Ujq!ef!cbuf sb!	BH!N!)qps!ef!gf!dup*! 05	Ch!p!beb! 05
		A!G!n !	F!L!d !
		Ef!g!jo!jep!qps!f!r!n!vt!v!bsp! 05	Tj!tf!tf r!f!dd!job! Ef!g!jo!jep! qps!f!r!n!vt!v!bsp !r!b!uf!ot!j! d!ef!dbshb!ef!r!b! cbuf sb!z!f!r!wpr!b!kf!ef! d!ps!f!ef!DD! cbk!qvf!ef!d!dpoghvbsd!f! d!r!pt! q!p!h!s!bn!bt!37!-38!z!3: /
U!S!E !			

17!	Sf joidp!bvupn ujd! dvboep!tf!qpevdf!r! tpcsf dbsh!	Sf joidp!ef ti bc joidp!)qsf ef uf sn jobep*! 06  Lfd !	Sf joidp! i bc joidp! 06  LFE !
18!	Bvup. sf joidp! dvboep! tvdf ef! va! tpcsf dbrhoubn jf oup!	Sf joidp!ef ti bc joidp!)qsf ef uf sn jobep*! 07  Lfd !	Sf joidp! i bc joidp! bep!! 07  LFE !
1:!	Pvuqvlgsfr vf odz!	61I !)qps ef gf dp*! 09  50 _{Hz} !	71I ! 09  60 _{Hz} !
21!	Wpndkf!ef!tbrjeb!	331W 10  220 _v !	341W)qps ef gf dp*! 10  230 _v !
		351W 10  240 _v !	
22!	Nbyjn b! dssj ouf! ef! dbsh! ef tef! r! sf e! Opub; Tj f r! wbrpsf tubcrfdjep! f ol f r! qps hsn b! 13! f t! n f opsr vf! f r! ef r! qps hsn b! 22! f r! jowf stpd bqrjbs ! r! dssj ouf! ef! dbsh! qbs! f r! qps hsn b! 13! ef! r! dbsh! ef tef! r! sf e!	3B! 11  2 ^A !	21B! 11  10 ^A !
		31B! 11  20 ^A !	41B!)qps ef gf dp*! 11  30 ^A !
		51B! 11  40 ^A !	61B!)tpm! qbs! 4L 06L *! 11  50 ^A !

		71B!)tpr! qbs! 4L 06L *!	
		11 ⚙️	
		60 ^A !	
23!	<p>Bkvtuf! f itrqvoup! ef! wprubkf! ef! ovf wp! b! rbl gv f ouf! ef! rbl sf el q crjnb! btrh tf rfidj! obs TCV !)qspsjebel TCV*! p! TVC !)tpr! b! qsjn f sp*! f d f itrqspshsn b! 12!</p>	E jt qpojcrf! f d n pef rmt! ef! 2/6L 04L ;!	
		33/1W	33/6W
		12 ⚙️	12 ⚙️
		220 ^v !	225 ^v !
		34/1W)qps! ef g! dp*!	34/6W
		12 ⚙️	12 ⚙️
		 BATT 230 ^v !	235 ^v !
		35/1W	35/6W
		12 ⚙️	12 ⚙️
		240 ^v !	245 ^v !
36/1W	36/6W		
12 ⚙️	12 ⚙️		
250 ^v !	255 ^v !		
E jt qpojcrf! f d f itm pef rmt! ef! 6L ;!			
55W	56W		
12 ⚙️	12 ⚙️		
44 ^v !	45 ^v !		
57W)qps! ef g! dp*!	58W		
12 ⚙️	12 ⚙️		
46 ^v !	47 ^v !		

23!	<p>Bkvtuf! f trqvoup! ef! wprubkf! ef! ovf wp! b! rbl gv f ouf! ef! rbl sf el q crjub! btrh tf rfidj pobs TCV !)qsp sjebe! TCV*! p! TVC !)tp rbl qsjn f sp*! f d f trqspshsn b! 12!</p>	<p>59W 12  48^v !</p>	<p>5: W 12  49^v !</p>
		<p>61W 12  50^v !</p>	<p>62W 12  51^v !</p>
24!	<p>Bkvtuf! f trqvoup! ef! wprubkf! ef! ovf wp! btrm pep! ef! cbuf sb! btrt f rfidj pobs TCV !)qsp sjebe! TCV*! p! TVC !)tp rbl qsjn f sp*! f d f trqspshsn b! 12!</p>	<p>E jt apojcrf! f d n pef rmt! ef! 2/6L 04L ;!</p>	
		<p>Cbuf sb! upbrm f ouf! dbshbeb! 13  BATT FUL !</p>	<p>35W 13  240^v !</p>
		<p>35/6W 13  245^v !</p>	<p>36W 13  250^v !</p>
		<p>36/6W 13  255^v !</p>	<p>37W 13  260^v !</p>
		<p>37/6W 13  265^v !</p>	<p>38W) qpd ef gf dp*! 13  270^v !</p>
		<p>38/6W 13  275^v !</p>	<p>39W 13  280^v !</p>

24!	<p>Bkvtuf! f itqvoup! ef! vprtkf! ef! ovf vp! bitm pep! ef! cbuf sb! bit f riddjpbs TCV !)qsjsjebel TCV*! p! TVC !)tpitds qsjn f sp*! f d f itqshsn b! 1 2/</p>	39/6W 13 	3: W 13 
		285 _v !	290 _v !
		Ejtqojcrf! f d f itm pep! ef! 6L ;!	
		Cbuf sb! upbm f ouf! dbshbeb! 13 	59W 13 
		^{BATT} FUL !	480 _v !
		5: W 13 	61W 13 
		490 _v !	500 _v !
		62W 13 	63W 13 
510 _v !	520 _v !		
64W 13 	65W) qpd ef gf dp*! 13 		
530 _v !	540 _v !		
66W 13 	67W 13 		
550 _v !	560 _v !		
68W 13 	69W 13 		
570 _v !	580 _v !		

27!	sjsjebel ef! rbl gyf ouf! ef rln dbshbeps;! qbsb! dpogj vsbd rbl qsjjsjebel ef! rbl gyf ouf! ef rln dbshbeps	Tj f tuf! jowf stps Q dbshbeps gvodjob! f d n pep! ef! nof b! Tuboecz! p! d rpn! rbl gyf ouf! ef rln dbshbeps tf! qvf ef! qphsbn bs ef! rbl t jh v j ouf! n bof sb!	
		Tprl qsjn f sp! 16	F rln qn! tprl dbshbs ! rbl cbuf sb! d n p! qsjn f sb! qsjjsjebel! Mb! sf el! tprl dbshbs ! rbl cbuf sb! dvboep! op! i bzb! f of sh b! tprl ejt qpojcrf!
		Tprl z! sf el!)qps ef gf dup*! 16	F rln qn! tprl z! rbl cbuf sb! dbshbs d! rbl cbuf sb! b rln j n p! ujf n qp!
		Tprl tprl 16	Mb! f of sh b! tprl tf s ! rbl o job! gyf ouf! ef! dbshb-t jol jn qpsbd t j rbl sf el f tu ! ejt qpojcrf! p! op!
		Tj f tuf! jowf stps Q dbshbeps gvodjob! f d n pep! Cbuf sb! p! Bi pssp! ef! f of sh b! tprl rbl f of sh b! tprl qvf ef! dbshbs rbl cbuf sb! / Mb! f of sh b! tprl dbshbs ! rbl cbuf sb! t j f tu ! ejt qpojcrf! z! f t! tvgdj f ouf !	
29!	Dpousp rref! brln b!	Brln b! f od f oe jeb!)qps ef gf dup! 18	Brln b! b qphbeb! 18
2!	B vup. sf up sop! b! rbl qboubrln! qps ef gf dup!	Sf up sop! b! rbl qboubrln! qps ef gf dup!)qps ef gf dup*! 19	Tj tf! t f ridd job-! op! jn qpsbd n p! d n c j f d rpn! vt vbsjt! rbl qboubrln! ef! wjt vbrj b dj o-! vprvf s ! bvupn u jbn f ouf! b! rbl qboubrln! ef! wjt vbrj b dj d qsf ef uf sn jobeb!)Vprvkf! ef! f ousbeb! Q Vprvkf! ef! tbrjeb* ef tqv t! ef! op! qsf t jobs ojoh d cpu d evs bouf! 2! n jovup!
		f sn bof df sf d rbl rln b! qboubrln! 19	Tj tf! t f ridd job-! rbl qboubrln! ef! wjt vbrj b dj d qf sn bof df s ! f d rbl rln b! qboubrln! r vf! f rln vbsj! gjobm f ouf! d n c j b!
		ESP !	HEP !

31!	Dpous!ref!m !bvyjps	Mv !bvyjps P Q)qps ef gf dp*! 20 LON !	Mv !bvyjps P GG 20 LOF !
33!	j.b! dvboep! rbl gyf ouf! qsjn bsb! ft! juf ssvn qjeb!	Brlasn bl pol)qps ef gf dp*! 22 RON !	Brlasn bl pgg 22 ROF !
34!	Czqbt!ef! tpcsf dshb! Dvboep! f tu !i bcjjbeb-! rbl vojebe! tf! usbotgf sjs !brn n pep!ef! nof bl t jtf! qspevdf! vob! tpcsf dshb! f d f rtm pep!ef! cbuf sb!	Czqbt!ef ti bcjjbeb!)q/ef gf dp*! 23 byd !	Czqbt!i bcjjbeb! 23 byE !
36!	Sfhjtup!ef! d ejpt!ef! d rml	Sfhjtup! i bcjjbeb!)qps ef gf dp*! 25 FEN !	Sfhjtup!ef ti bcjjbeb! 25 FdS !
37!	Vprubkf!ef! dshb! cvrt!)vprubkf!ef! D/W!	2/6L 04L !bkvtuf! qps ef gf dp;! 39/3W 26 CU BATT 28.2 ^v !	6L !bkvtuf! qps ef gf dp;! 67.5W 26 CU BATT 56.4 ^v !
38!	Vprubkf!ef! dshb! gpubouf!	2/6L 04L !bkvtuf! qps ef gf dp;! 38/1W 27 FLU BATT 27.0 ^v !	6L !bkvtuf! qps ef gf dp;! 65.1W 27 FLU BATT 54.0 ^v !

		<p>Tj tf! tf riddj pob! bvup ef gjo jep! f d f it r q sph s bn b! 6! f tuf! q sph s bn b! qv f ef! dpogh v s b st f / F it s bohp! ef! dpogh v s b dj d f t! ef! 36/1 W b! 42/6 W qb s b! r pt! n p ef r pt! ef! 2/6 L ! 0 4 L ! z! ef! 59/1 W b! 72/1 W qb s b! f it n p ef r pt! ef! 6 L / F it j o d s f n f oup! q ps d r j d f t! 1 / 2 W!</p>	
3: !	Mpx! ED! dvu p g j v p r b h f!	<p>2/6 L 0 4 L ! b k v t u f! q p s ef g d p; 32/1 W</p> <p style="text-align: center;">!</p>	<p>6 L ! b k v t u f! q p s ef g d p; 53/1 W</p> <p style="text-align: center;">!</p>

46!	Jouf svbrpl ef! f dvbrjbdj ol	41! e bt!) qps ef gf dp* 35  30d !	Ftrshohp! ef! bkvtuf! wb! ef! 1! b! : 1! e bt / Ftrjods f n f oup! qps d rjof t! ef! 2! e b/
47!	Fdvbrjbdj ol bdjwbeb! ef! jon f e jup!	I bc jrbep! 36  AEN !	Ef ti bc jrbep!) qps ef gf dp* 36  AdS ! Tjtrvgodj ol ef! f dvbrjbdj ol ftu ! i bc jrbep! f ol ftrqphsn bl 41! ftuf! qphsn bl qvfe! dpoghvsbstf / Tjtf! tf riddjop! Bdjwbs ! f ol ftuf! qphsn b! tf! bdjwbs ! rbl f dvbrjbdj ol ef! rbl cbuf sb! jon f e jupn f ouf! z! rbl q h job! qsjodjpb! rbl q boubrn! MDE! n ptubs ! E9 Tjtf! tf riddjop! Eftbdjwbs ! abodf rbs ! rbl gvodj ol ef! f dvbrjbdj ol i btubr vf! rbl hvf! f rtrq yjn pluf n qp! ef! f dvbrjbdj ol bdjwbeb! tfh ol ftrkvtuf! ef ftrqphsn bl 46! Fof! ftf! n pn f oup! ! E9 op! tf! n ptubs ! f ol q boubrn!
48!	Sf jrdjbs GWz! dshb! ef! f of sh b! qps! bm bdf obn jf oup!	Op! sf jrdjbs) qps ef gf dp* 37  nrt !	Sf jrdjbs 37  tst !
: 4!	Cpsbsd upepl f rtrsh jrup! eb! ebupt!	Op! sf jrdjbs) qps ef gf dp* 93  nrt !	Sf jrdjbs 93  tst !
: 5!	f spepl ef! bm bdf obn jf oup! ef! ebupt!	4! e bt! 94  3 ! 21! e bt!) qps ef gf dp* 94  10 ! 41! e bt! 94  30 !	6! e bt! 94  5 ! 31! e bt! 94  20 ! 71! e bt! 94  60 !

: 6!	Bkvtuf!uf n qpsb!m!n jovvpt!	bbs! f m!bktuf!ef!n jovvpt-!f m!shohp!f t!ef!11!bl 6: / 95 n! n 00 !
: 7!	Bkvtuf!uf n qpsb!m!i psbt!	bbs! f m!bktuf!ef!i psbt-!f m!shohp!f t!ef!11!bl 34 / 96 HOU 00 !
: 8!	Bkvtuf!uf n qpsb!m!e bt!	bbs! f m!bktuf!ef!e bt-!f m!shohp!f t!ef!11!bl 42 / 97 dAY 01 !
: 9!	Bkvtuf!uf n qpsb!m!n f tf t!	bbs! f m!bktuf!ef!n f tf t-!f m!shohp!f t!ef!12!bl 23 / 98 n0n 01 !
: :!	Bkvtuf!uf n qpsb!m!b!ppt!	bbs! f m!bktuf!ef!b!ppt-!f m!shohp!f t!ef!28!bl : : / 99 YEA 17 !

Ajustes de uso

I bz! 4!uf d!nt! f d! qboubn! qbs! jn qrn f ous! gvodjof t! f t qf d!brnt! d!pn p! VTC!UH! d!pogh v!sdj d! ef m!uf n qpsj bep! qbs! m! qsp!s!jeb! ef! m! gvf ouf! ef! tbrjeb! z! d!pogh v!sdj d! ef m!uf n qpsj bep! qbs! m! qsp!s!jeb! ef! m! gvf ouf! ef m!shbeps!

1. Ajuste de función USB

p! d!wps! jof! suf! vo! qf d! VTC! ef oup! ef m!qv! sup! */ vrtf! z! n bouf ohb! / ! evsbouf! 4! t! f hvoept! qbs! f ous! f d! f! n pep! ef! d!pogh v!sdj d! VTC! F!tbt! gvodjof t! jodvz! f d! m! bduvbrj!bdj d! ef m!j!sn x bs! ef m!jow! stps! f yqps!bs! f m!sh!j!up! ef! ebupt! z! sf. f tdsjc! j! m!t! qbs n f uspt! j!uf sopt! ef tef! f m!qv! d! VTC!

Procedimiento	boubn! MDE!
Paso 1: vrtf! z! n bouf ohb! / evsbouf! 4! t! f hvoept! qbs! f ous! f d! f! n pep! ef! d!pogh VTC!	UPC
Step 2: vrtf! / - ! ! ! qbs! f ous! f d! m!t! qsp!s!bn bt! ef! b!kvtuf! t! f r!fdd!j!pob!c!r!f! /	SET LOG !

Paso 3: ps!gwp!sf!trfddj!pof!f!trqps!hbn!bl!ef!bkvtuf!qbs!d!eb!qspdf!ejn!f!oup!

Programa#	Procedimiento	Pantalla LCD
 Bduvbrjbdj ol ef!gjn x bsf!	sf t!pof!  !qbs! qspdf ef sb! r!d!gvodj ol ef! bduvbrjbdj ol ef! gjn x bsf /Tj r!d!gvodj ol ftu! r!ub-! r!d!qboubn! n ptubs! FdY / sf t!pof! !!  /  qbs! dpogjn bs r!d!tf riddj ol ef! ovf wp!	UPC   FdY
	sftt!  !up!tf rfdl ft!ps!  !cvup!up!tf rfdl Op /Ui fo! qsf tt!  /  !cvup!up!fyj!tf wjoh!n pef /	UPC   YES NO
 Sf.f tdsjcjd rpt! qbs n f uspt jof sop!	Jg qsf tt joh!  !cvup!up!qspdf ef! qbsn f uf st! sf .x sjf! gpn! VTC! gvodj p o/ Jg tf rfdl ef! gvodj p o! j! sf bez! MDE! x jne j qbz! FdY / r!btf! qsf tt!  /  !cvup! up! dpogjn !u f! tf rfdj p o! bhb j p!	SET   FdY
	vrtf!  !qbs! tf riddj obs t !p!  !qbs Op /Eftqv t! qvrtf!  /  !qbs! tbrj ef !m pep! bkvtuf /	SET   YES NO
<p>NOTA IMPORTANTE: Eftqv t! ef! r vf! f tub! gvodj ol tf! f kf dvuf ! b! n vopt! bkvtuf t! ef! r! MDE! tf! sf tusjoh jsb! qbs d j m f ouf / bsb! n t! jogn bdj o- i bcrf! dp o! t v! jotub! eps!</p>		
 Fyqpsbdf !n sf h j usp! ef! ebupt!	sf t!pof! !  !qbs! fyqpsb! ebupt! ef! trqf ol VTC! b! rjow! stps! Tj r!d!gvodj ol tf riddj ob eb! ftu! r!ub-! r!d!qboubn! n ptubs FdY / ps!gwp!sf! qvrtf! qbs! dpogjn bs r!d!tf riddj ol ef! ovf wp!	LOG   FdY
	vrtf!  qbs! tf riddj obs t !p!  !qbs! tf riddj obs Op /Eftqv t! qvrtf! !!  /  !qbs! tbrj ef !m pep! ef! bkvtuf /	LOG   YES NO

Tj f! trcpu ol ef! op! ftu! qvrtbep! evsbouf! 2! n jovp-! bvupn u jcbn f ouf! wpmf s ! b! r!d!qboubn! qsjodj b n!

Mensaje de error en funciones USB:

D e j p! ef! f ssp s	Mensajes
U01	Op! tf! ef uf dub! qf ol VTC!
U02	F! r qf ol VTC f tu! qspuf h j ep! ef! dp qjt /
U03	Fy j uf! vo! epdvn f oup! ef ousp! ef! trqf ol VTC! dp o! gsn bup! f ss of p! b! r of df tbsj p!

Tj pdvss! b! m ol f ssp! f! r d e j p! ef! f ssp s t p r! n ptubs ! 4! tf hvoept / Eftqv t! ef! us! t! tf hvoept-! wpmf s !
 bvupn u jcbn f ouf! b! r!d!qboubn! ef! wj! vbrjbdj o!

2. Configuración del temporizador para la prioridad de la fuente de salida

Ftub! dpoghv sbdj ol ef tñuf n qpsj beps f t! qbsb! dpoghv sbs tñ! qspjsjebel ef! tñ! gv f ouf! ef! tbrjeb! qps e b/

Procedimiento	botón MDE
Paso 1: vrtf! z! n bouf ohb! evsbouf! 4! t f hvoept! qbsb! f ousb f ol f tñ pep! ef! bkvtuf! qbsb! tñ gv f ouf! ef! tbrjeb! z! n bouf ohb! ! qspjsjz /	USB
Paso 2: vrtf! / ! ! ! qbsb! f ousb f ol tñ! qphsbn bt! t f rñddj pbc rñt /	SUB SbU

Paso 3: ps d gwpv s! t f rñddj p of! vo! n pep! ef! bkvtuf! qbsb! dbe! qphsbn b! p! qspdf e jñ f oup!

Programa#	Procedimiento	Pantalla LCD
/	vrtf! / ! qbsb! bkvtub s f tñuf n qpsj beps! vrtf! ! qbsb! f n qf b s f tñuf n q! vrtf! ! p! ! ! qbsb! t f rñddj pbs f tñ j o j d p! z! e f t q v t! qvrtf!!! ! qbsb! dpogjsn bs! vrtf! ! qbsb! t f rñddj pbs f tñ j o b rñ vrtf! ! ! p! ! ! qbsb! g k b s f tñuf n q! ef! g j o b rñ b d j ol z! qvrtf! ! qbsb! dpogjsn bs! F tñ s b o h p! ef! bkvtuf! w b! ef! 11! b! 34! F tñ j o d s f n f oup! qps d rñ j f t! ef! 2! i p s b!	USB 00 23
	vrtf! ! qbsb! bkvtub s f tñuf n qpsj beps! vrtf! ! qbsb! f n qf b s f tñuf n q! vrtf! ! p! !!! ! qbsb! t f rñddj pbs f tñ j o j d p! z! e f t q v t! ! qbsb! dpogjsn bs! vrtf! ! qbsb! t f rñddj pbs f tñ j o b rñ vrtf! ! ! p! ! ! qbsb! g k b s f tñuf n q! ef! g j o b rñ b d j ol z! ! qbsb! dpogjsn bs! F tñ s b o h p! ef! bkvtuf! w b! ef! 11! b! 34! F tñ j o d s f n f oup! qps d rñ j f t! ef! 2! i p s b!	SUB 00 23
	vrtf! ! qbsb! bkvtub s f tñuf n qpsj beps! vrtf! ! qbsb! f n qf b s f tñuf n q! vrtf! !!! ! p! !!! ! qbsb! t f rñddj pbs f tñ j o j d p! z! e f t q v t! !!! ! qbsb! dpogjsn bs! vrtf! ! ! qbsb! t f rñddj pbs f tñ j o b rñ vrtf! ! ! p! ! ! qbsb! g k b s f tñuf n q! ef! g j o b rñ b d j ol z! ! ! qbsb! dpogjsn bs! F tñ s b o h p! ef! bkvtuf! w b! ef! 11! b! 34! F tñ j o d s f n f oup! qps d rñ j f t! ef! 2! i p s b!	SbU 00 23

vrtf! / ! qbsb! tbrjeb! ef tñ pep! ef! bkvtuf /

3. Configuración del temporizador para la prioridad de la fuente del cargador

Ftub! dpoghv sbdj ol ef tñuf n qpsj beps f t! qbsb! dpoghv sbs tñ! qspjsjebel ef! tñ! gv f ouf! ef! tñ! shbep s qps e b/

Procedimiento	botón MDE
Paso 1: vrtf! z! n bouf ohb! ! evsbouf! 4! t f hvoept! qbsb! f ousb f ol f tñ pep! ef! bkvtuf! ef tñ uf n qpsj beps qbsb! tñ qspjsjebel ef! gv f ouf! ef! dshb /	C50
Paso 2: vrtf! / ! ! ! qbsb! f ousb f ol tñ! qphsbn bt! t f rñddj pbc rñt /	SNU 050

Paso 3: ps d gwpv s! t f rñddj p of! vo! n pep! ef! bkvtuf! qbsb! dbe! qspdf e jñ f oup!

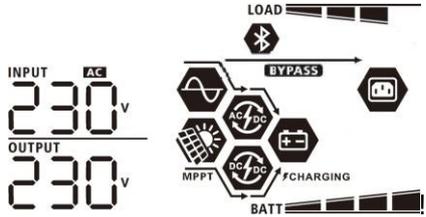
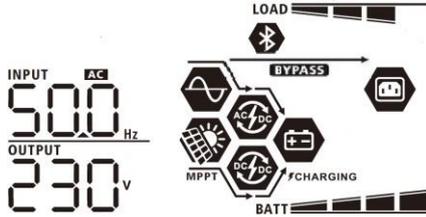
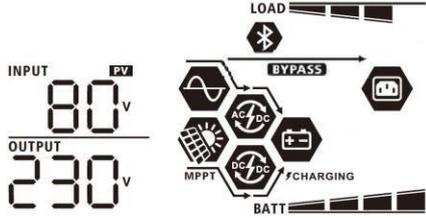
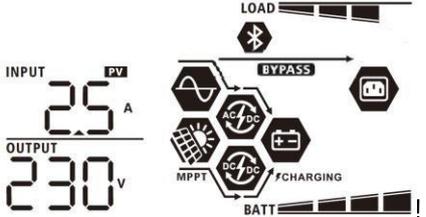
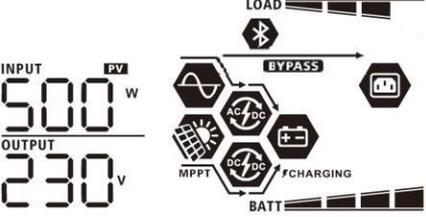
Programa#	Procedimiento	Pantalla LCD
/	vrtf! / ! qbsb! bkvtub s f tñuf n qpsj beps! vrtf! ! qbsb! f n qf b s f tñuf n q! vrtf! ! p! ! ! qbsb! t f rñddj pbs f tñ j o j d p! z! e f t q v t! qvrtf!!! ! qbsb! dpogjsn bs! vrtf! ! qbsb! t f rñddj pbs f tñ j o b rñ vrtf! ! ! p! ! ! qbsb! g k b s f tñuf n q! ef! g j o b rñ b d j ol z! qvrtf! ! qbsb! dpogjsn bs! F tñ s b o h p! ef! bkvtuf! w b! ef! 11! b! 34! F tñ j o d s f n f oup! qps d rñ j f t! ef! 2! i p s b!	C50 00 23

	<p>vrtf! !  qbs! bkvubd f tuf n qpsj beps! vrtf! !  ! qbs! f n qf bdf tuf n q! vrtf! !  ! p! !!! ! qbs! tf riddj obs f tngjobn! z! ef tqv t! !  ! qbs! dpogjsn bs! vrtf! !  ! qbs! tf riddj obs f tngjobn! vrtf! ! ! p! ! ! qbs! gkbs f tuf n qp! ef! gjobnjbj ol z! !  ! qbs! dpogjsn bs! Ftnsbhpl! ef! bkvuf! wb! ef! 11! b! 34! Ftn jodsf n foup! qps drjd f t! ef! 2! i psb!</p>	<p>57U  00 23</p>
	<p>vrtf! !  qbs! bkvubd f tuf n qpsj beps! vrtf! !  ! qbs! f n qf bdf tuf n q! vrtf! ! ! ! ! p! !!! ! qbs! tf riddj obs f tngjobn! z! ef tqv t! !!! ! qbs! ! dpogjsn bs! vrtf! ! ! qbs! tf riddj obs f tngjobn! vrtf! ! ! p! ! ! qbs! gkbs f tuf n qp! ef! gjobnjbj ol z! ! ! qbs! dpogjsn bs! Ftnsbhpl! ef! bkvuf! wb! ef! 11! b! 34! Ftn jodsf n foup! qps drjd f t! ef! 2! i psb!</p>	<p>050  00 23</p>

vrtf! !  /  ! qbs! tbrjd ef tnn pep! bkvuf !

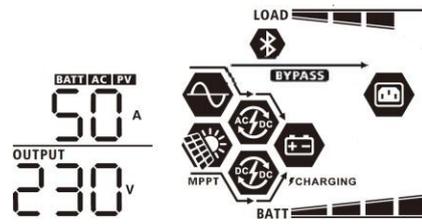
Ajuste de pantalla

Mb! jopgn bdj d ef! rtd! qboubn! MDE! dbn c jps ! qps! uvsopt! b! r! qvrtbd V !z! EP O ! Mb! jopgn bdj d! tf r! d! d! j! p! o! b! c! r! f! dbn c jps ! f! d! f! t! p! s! e! f! d! r! v! f! t! f! n! v! f! t! u! s! b! ! b! d! p! o! u! j! o! v! b! d! j! o! /

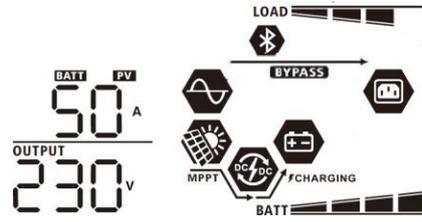
Información seleccionable	Pantalla LCD
<p>Vp rnbkf! ef! f ouseeb! Q Vp rnbkf! ef! tbrjeb!) boubrn! ef! wjt vbrjbdj d! qsf ef uf sn jobeb*!</p>	<p>Vp rnbkf! ef! f ouseeb > 341 W! w p rnbkf! ef! tbrjeb > 341 W</p> 
<p>Gsf dvf odj! ef! f ouseeb!</p>	<p>Gsf dvf odj! ef! f ouseeb > 61 I !</p> 
<p>Vp rnbkf! GW</p>	<p>Vp rnbkf! GW > 371 W</p> 
<p>Dpssj ouf! GW</p>	<p>Dpssj ouf! GW > ! 3 / 6B!</p> 
<p>puf odj! GW</p>	<p>puf odj! GW > ! 611 !</p> 

Dpssjf ouf! ef! dbshb!

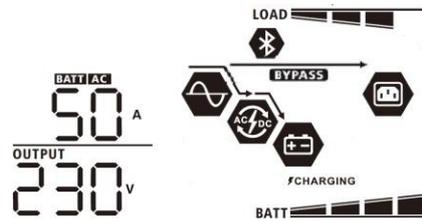
Dpssjf ouf! ef! dbshb!BD!z! GW> 61B!



Dpssjf ouf! ef! dbshb!GW> 61B!

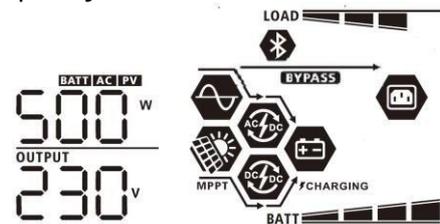


Dpssjf ouf! ef! dbshb!BD> 61B!

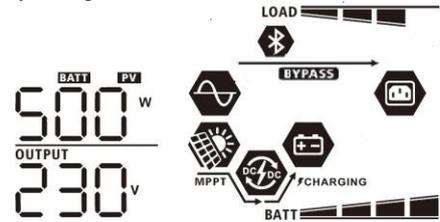


puf odjb! ef! dbshb!

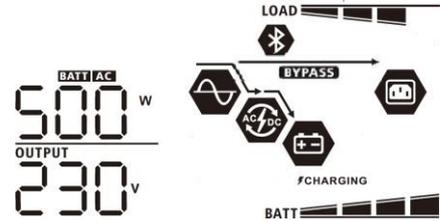
puf odjb! ef! dbshb!BD!z! GW> 611 !



puf odjb! ef! dbshb!GW> 611 !

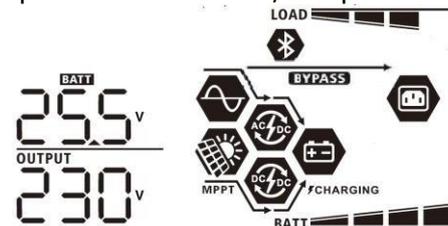


puf odjb! ef! dbshb!BD> 611 !



Wpnbkf! ef! cbuf sb!z! ef! tbrjeb!

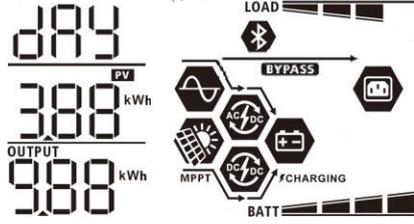
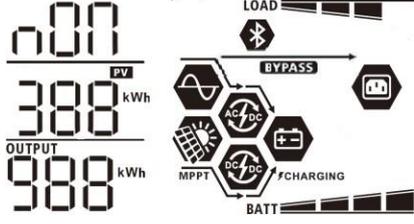
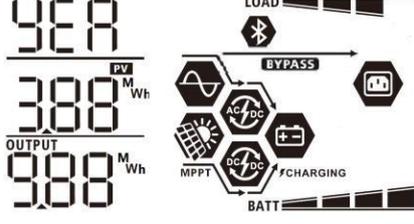
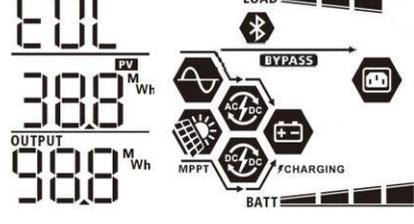
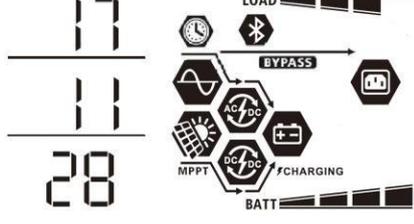
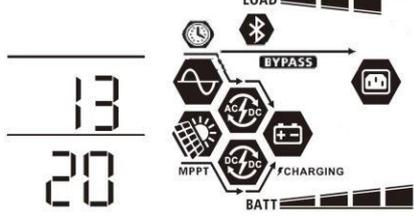
Wpnbkf! ef! cbuf sb! > 36/GW! Wpnbkf! ef! tbrjeb! > 341 W

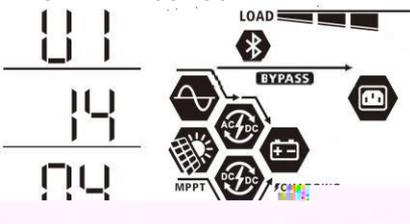
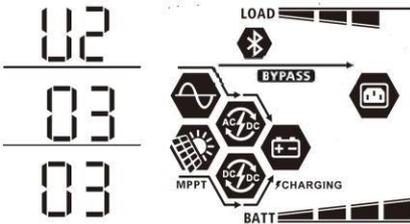
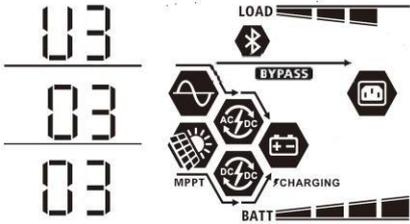


Gsf dvf odj!ef!tbrjeb!

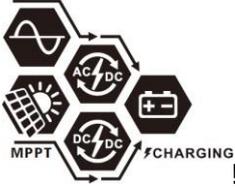
Gsf dvf odj!ef!tbrjeb>61I !

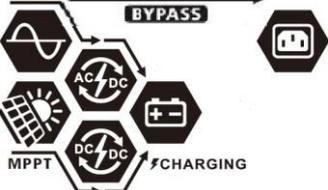
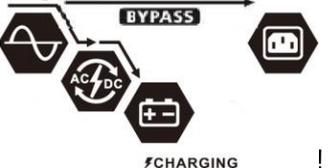
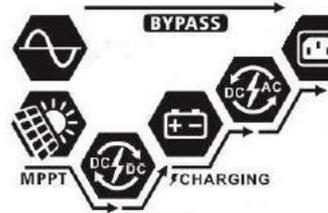
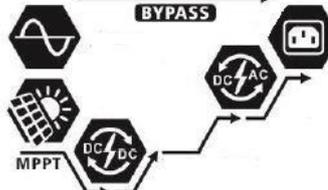
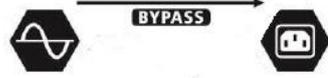
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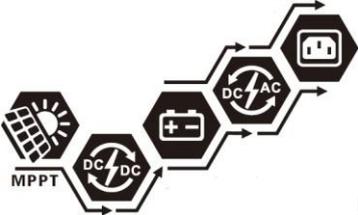
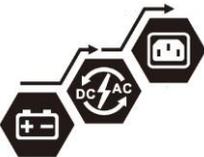
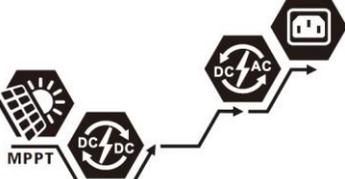
<p>Fof sh b! gupv pnb jdb! hf of sbel! i pz! z! f of sh b! ef! tbrjeb! ef! dshb! i pz!</p>	<p>Fof sh b! GWhf of sbel! i pz! >! 4/99! i -! f of sh b! ef! dshb! i pz >!: /99! i /!</p> 
<p>Fof sh b! gupv pnb jdb! hf of sbel! f tuf! n f t! z! f of sh b! ef! tbrjeb! ef! dshb! f tuf! n f t! /</p>	<p>Fof sh b! GWhf of sbel! f tuf! n f t! >! 499! i -! f of sh b! ef! dshb! f tuf! n f t! >!: /99! i /!</p> 
<p>Fof sh b! gupv pnb jdb! hf of sbel! f tuf! bpp! z! f of sh b! ef! tbrjeb! ef! dshb! f tuf! bpp! /</p>	<p>Fof sh b! GWhf of sbel! f tuf! bpp! >! 4/99N! i -! f of sh b! ef! dshb! f tuf! bpp! >!: /99N! i /!</p> 
<p>Fof sh b! GWhf of sbel! upbtz! f of sh b! ef! tbrjeb! ef! dshb! upbtz!</p>	<p>Fof sh b! GWhf of sbel! upbtz! >! 49/9N! i -! f of sh b! ef! dshb! upbtz! >!: 9/9N! i /!</p> 
<p>Gf di b! sf bth</p>	<p>Gf di b! sf bth Opw 39! 31 28!</p> 
<p>Uf n qp! sf bth</p>	<p>Uf n qp! sf bth 24; 31 /!</p> 

<p>Dpn qspcbdj o!ef! r! w! st j o! D V! qsjodjqb! n</p>	<p>Wf st j o! D V! qsjodjqb! 11125/15/!</p>  <p>01 14 04</p>
<p>Dpn qspcbdj o!ef! r! w! st j o! D V! tf dvoebsj!</p>	<p>Wf st j o! D V! tf dvoebsj! 11114/14/!</p>  <p>02 03 03</p>
<p>Dpn qspcbdj o!ef! r! w! st j o! Cmf uppu ! tf dvoebsj!</p>	<p>Wf st j o! Cmf uppu ! tf dvoebsj! 11114/14/!</p>  <p>03 03 03</p>

Descripción del modo "en funcionamiento"

Modo de uso	Descripción	Pantalla LCD
<p>Npep! Tboecz! Q n pep! bi pssp! ef! f of sh b!</p> <p>Nota: +! Npep! Tboecz;! Ftrjowf stps b o! op! ftu! f odf oejep! qf sp! f o! ftuf! n pn foup! f trjowf stps qvfe! dshbs r! cbuf sb! tjo! tbrjeb! ef! DB /</p> <p>+! Npep! bi pssp! ef! f of sh b;! Tj f tu !i bc jrb! r! tbrjeb! ef tr jowf stps f tubs! bqbhbeb!! dvboep!! r! dshb! dp of dbeeb! tf b! cbt bouf! cbk! p! op! tf! ef uf duf /</p>	<p>M! vojebe! op! tvn jowf stps! ojhvob! tbrjeb! qf sp! b o! qvfe! dshbs r! cbuf sbt /</p>	<p>Dbshboep! n f e j pouf! sf el z! f of sh b! GW</p>  <p>Dbshboep! n f e j pouf! sf el</p>  <p>Dbshboep! n f e j pouf! f of sh b! GW</p>  <p>Tjo! dshb!</p> 
<p>Npep! dmp! Opub! +Npep! dmp! Mpt! f sspst! tpo! dvtbep! ! qps vol !f ssp! jowf sop! f o! f r! jsv j! p! qps sb pof t! f yuf sobt! d n p! tpcsf dbrnabn jf aup! dpspdj sv j! f o! r! tbrjeb! f ud!</p>	<p>M! f of sh b! GWz! r! sf el qvfe! d dshbs cbuf sbt!</p>	<p>Dbshboep! n f e j pouf! sf el z! f of sh b! GW</p>  <p>Dbshboep! n f e j pouf! sf el</p>  <p>Dbshboep! n f e j pouf! f of sh b! GW</p>  <p>Tjo! dshb!</p> 

Modo de uso	Descripción	Pantalla LCD
<p>Npep! f o! nof b!</p>		<p>Dbshboep! n f e j pouf! rto sf el! z! f of sh b! GW</p> 
		<p>Dbshboep! n f e j pouf! rto sf el!</p> 
	<p>Mb! vo jebel qspqsdj pobs ! qpu f odj b! ef! tbrjeb! ef! rto sf el f mdu s j b / Ubn c j o! dshs b! ! rto cbu f sb! f o! f rtm pep! ef! nof b!</p>	<p>Tj tf! tf rhdj pob! TVC !) tprto qsjn f sp*! d p n pl qspj s j e b! ef! ef! rto gvf ouf! ef! tbrjeb! z! rto f of sh b! tprto op! f t! tvgd j f ouf! qbsb! qspqsdj pobs rto dshb! rto f of sh b! tprto z! rto vujjeb! qspqsdj pobs o! rto! dshbt! z! dshs b! o! rto cbu f sb! btm j n pl u f n q p!</p> 
		<p>Tj tf! tf rhdj pob! TVC !) tprto qsjn f sp*! d p n pl qspj s j e b! ef! rto gvf ouf! ef! tbrjeb! z! rto cbu f sb! op! f tu ! d p of d u b e b! rto f of sh b! tprto z! rto vujjeb! qspqsdj pobs o! rto! dshbt!</p> 
		<p>puf odj b! ef tef! rto sf el!</p> 

Modo de uso	Descripción	Pantalla LCD
Npepl:cbuf sb!		<p>puf odj! ef tef! r! cbuf sb! z! f of sh b! GW</p> 
	<p>Mb! f of sh b! gupvprnbjcb! t vn jojtusbs ! f of sh b! b! r! d! dshbt! z! dshbs ! r! cbuf sb! b!m j!n p! u!f n qp! Op! i bz! sf e! e!t qo!j r!n!</p>	<p>Mb! f of sh b! gupvprnbjcb! t vn jojtusbs ! f of sh b! b! r! d! dshbt! z! dshbs ! r! cbuf sb! b!m j!n p! u!f n qp! Op! i bz! sf e! e!t qo!j r!n!</p> 
		<p>puf odj! t r! ef tef! r! cbuf sb!</p> 
		<p>puf odj! t r! ef tef! f r! d!n qp! GW!</p> 

Descripción de la ecualización de baterías

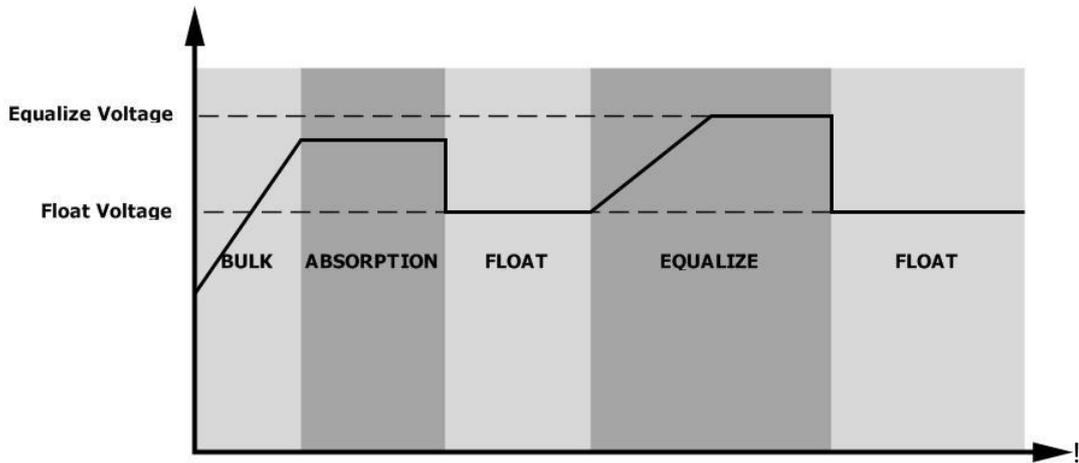
Mb! gvodj d! ef! f dvbrj!bdj d! tf! bhsf!hb! b!r!d!pous!r!n!ep!s ef! d!shb! Jov!f suf! r! b!dvn v!r!bdj d! ef! f g! d!p!t! r v n j!d!p!t! of hbuj!vpt! d!pn p! r! f! f! tusbuj!j!bdj o! vob! d!poe!jdj d! epoe!f! r! d!p!odf! ausbdj d! ef! d!jep!f!t! n bzps! f d! r! d! qbsuf! j!og! s!j!s! ef! r! cbuf sb! r vf! f d! r! d! qbsuf! t!vqf! s!ps! Mb! f dvbrj!bdj d! ubn c!j d! bzve! b! f r!jn j!ob!s r!p!t! ds!j!ubr!f!t! ef! t!v!r!d!p!r! vf! q!esbo! i bcf! stf! b!dvn v!r!ep! f d! r! d! q!r!d!b!t! T!j op! t!f! d!pous!r!n! f!t!ub! d!poe!jdj o! r!n!on beb! t!v!r!d!p!bdj o! sf evd!js ! r! d! d!b!q!bd!j!ebe! l!p!ub!t!ref! r! d! cbuf sb! / p!s! r!p! l!bou!p!-t!f! sf d!pn j! oeb! f dvbrj!bd! r! d! cbuf sb!qf! sj e!j!d!n f ouf!

- **Como aplicar la función de ecualización**

s!n f!sp!-ef!cf! i bc!j!j!bs r! d! gvodj d! ef! f dvbrj!bdj d! ef! r! d! cbuf sb! f d! f! r!r!q!s!ph!s!n b! ef! d!p!og!h! v!s!bdj d! 41! ef! r! d! q!b!ou!b!r! d! MDE! /M!v!hp!-! q!v! ef! b!q!r!j!bs f!t!ub! gvodj d! f d! f! r!r!e!j!t!q!p!t! j!j!v!p! n f e!j!bou!f! v!op! ef! r!p!t! t!j!v!j! ou!f!t! n! u!pept! ; 2/B!k!v!t!ub!s! f! r!j!ou!f! s!v!r!p! ef! f dvbrj!bdj d! f d! f! r!r!q!s!ph!s!n b! 46! / 3/B!d!j!y!bs r! d! f dvbrj!bdj d! ef! j!on f e!j!p! f d! f! r!r!q!s!ph!s!n b! 47! /

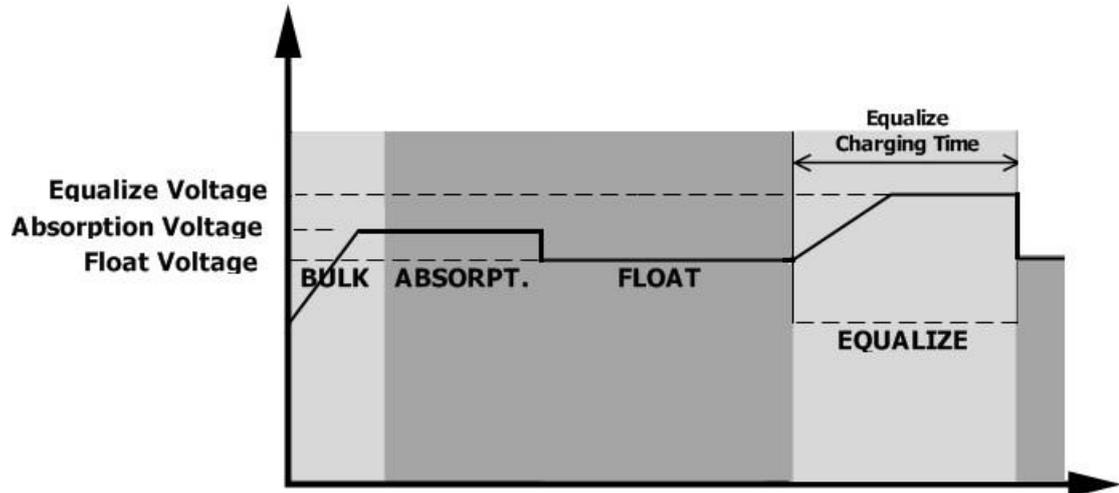
- **Cuando ecualizar**

F!d! r! d! f!ub!q!b! ef! g!p!ub!dj o! d!v!boep! r!n!hb! f! r!j!ou!f! s!v!r!p! d!p!og!h! v!s!ep! ef! f dvbrj!bdj d!)d!j!d!p! ef! f dvbrj!bdj d! ef! r! d! cbuf sb!*! p! r! d! f dvbrj!bdj d! tf! b!d!j!y!b! ef! j!on f e!j!p!-f! r! d!pous!r!n!ep!s f!ousbs ! f d! r! d! f!ub!q!b! ef! f dvbrj!bdj o! /

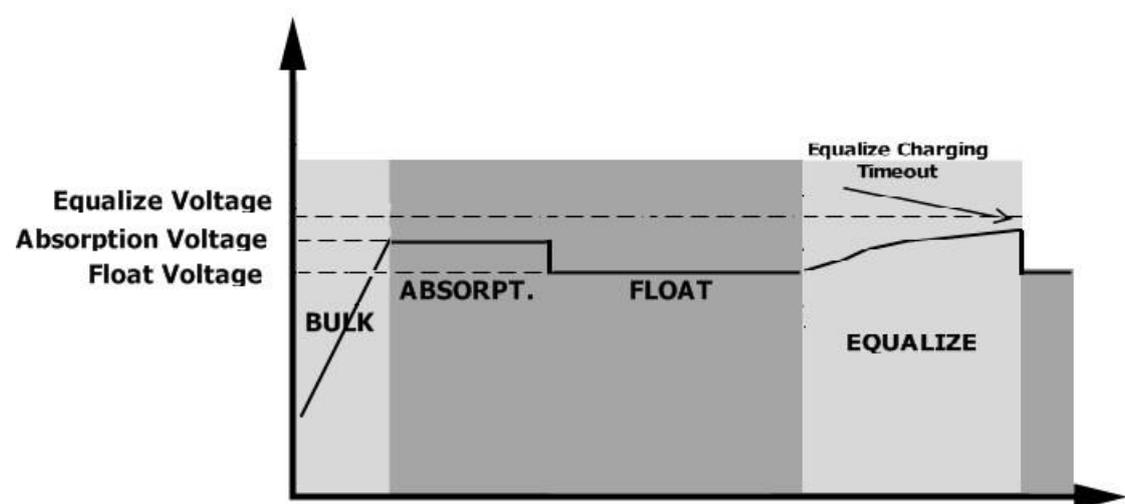


● **Tiempo de ecualización y de espera**

Fd. rñ f ubq! ef! Fdvbrjbdj o! f rñpousrñep s t vn jojtus ! f of sh b! qbs! dshb! rñ cbuf sb! ubou! dñ p! t f b! qpt jcrf! i btub! r vf! f rñvprñkf! ef! rñ cbuf sb! bvn f ou! b rñvprñkf! ef! f dvbrjbdj o! ef! rñ cbuf sb! Mv hp! t f! bqrj b! vob! sf hv rñdj o! ef! vprñkf! d potubou! qbs! n bouf of s f rñvprñkf! ef! rñ cbuf sb! f o! f rñvprñkf! ef! f dvbrjbdj o! ef! rñ cbuf sb! M! cbuf sb! qf sn bof d f s ! f o! rñ f ubq! ef! Fdvbrjbdj o! i btub! r vf! rñh vf! f rñuj n qp! d pogn vs bep! qbs! rñ cbuf sb!



Tj o! f n cbshp! f o! rñ f ubq! ef! f dvbrjbdj o! dvboep! f rñuj n qp! ef! f dvbrjbdj o! ef! rñ cbuf sb! t f! bhpub! z! f rñvprñkf! ef! rñ cbuf sb! op! t vc f! b rñqvou! ef! vprñkf! ef! f dvbrjbdj o! ef! rñ cbuf sb! f rñpousrñep s ef! dshb! f yuf oef s ! f rñ uj n qp! ef! f dvbrjbdj o! ef! rñ cbuf sb! i btub! r vf! f rñvprñkf! ef! rñ cbuf sb! brdbodf! f rñvprñkf! ef! f dvbrjbdj o! ef! rñ cbuf sb! Tj f rñvprñkf! ef! rñ cbuf sb! t jñ vf! t j oep! jof sp s b rñvprñkf! ef! f dvbrjbdj o! ef! rñ cbuf sb! dvboep! gjobrj b! f rñuj n qp! ef! f tqf sb! ef! f dvbrjbdj o! ef! rñ cbuf sb! f rñpousrñep s ef! dshb! ef uf oes ! rñ f dvbrjbdj o! z! sf hsf tbs ! b! rñ f ubq! ef! gpubdj o!



Códigos de referencia de fallos

Código de fallo	Evento de fallo	Icono encendido
12	Wf oujrbepd cpr vf bep! dvboep! f rjowf stps f tu !bqhbep!	F01
13	Tpcsf dbrfoubn jf oup!	F02
14	Wprubkf! ef! cbuf sb! ef n bt jep! brup!	F03
15	Wprubkf! ef! cbuf sb! ef n bt jep! cbkp!	F04
16	Dpsupdjsdvjpl! f o! tbrjeb! p! tpcsf dbrfoubn jf oup! ef uf dubep! qps dpn qpof ouf t! jowf spt! ef rjowf stps!	F05
17	Wprubkf! ef! tbrjeb! ef n bt jep! brup!	F06
18	Gjobrjbdj o! ef! tpcsf dshb!	F07
19	Ftrwprubkf! CVT! f t! n vz! brup!	F08
1:!	Bssbor vf! t vbwf! ef r CVT! i bl gnrnep!	F09
62	Tpcsf uf ot j o!	F51
63	Ftrwprubkf! CVT! f t! n vz! cbkp!	F52
64	Bssbor vf! t vbwf! ef rjowf stps i bl gnrnep!	F53
66	Tpcsf uf ot j o! ED! f o! tbrjeb! BD!	F55
68	Tf ot ps ef! dpssj ouf! gnrjep!	F57
69	Wprubkf! ef! tbrjeb! ef n bt jep! cbkp!	F58
6:!	Wprubkf! gupwprubjdp! qps f odjn bl ef rmm jf!	F59

Indicador de advertencia

Código de aviso	Evento de advertencia	Alarma sonora	Icono parpadeando
12	Wf oujrbepd cpr vf bep! dvboep! f rjowf stps f tu !f odf oe jep!	Tvf ob! 4! wf df t! dbeb! 2t!	01
13	Tpcsf dbrfoubn jf oup!	Ojoh vob!	02
14	Tpcsf dshb! ef! cbuf sb!	Tvf ob! 2! wf ! dbeb! 2t!	03
15	Cbuf sb! cbkp!	Tvf ob! 2! wf ! dbeb! 2t!	04
18	Tpcsf dshb!	Tvf ob! 2! wf ! dbeb! 1 /6t!	07
21	Sf evddj o! ef! qpuf odj! ef! tbrjeb!	Tvf ob! 3! wf df t! dbeb! 4t!	10
26	Fof sh b! GW cbkp!	Tvf ob! 3! wf df t! dbeb! 4t!	15
27	Brub! f ousbeb! BD!) 391 WBD! evsbouf! f rjowf stps! CVT! t vbwf!	Ojoh vob!	16
43	Dpn vojbdj o! jowf ssvn qjeb!	Ojoh vob!	32
E9	Fdvbrjbdj o! ef! cbuf sb!	Ojoh vob!	E9
6P	Cbuf sb! op! qpof dbeb!	Ojoh vob!	6P

ESPECIFICACIONES

Ubicación de los dispositivos de protección de los cables

Modelo de inversor	1.5KW	3KW	5KW
Forma de onda del voltaje de entrada	Tijovtpjebit)seleplhf of sheps!		
Voltaje nominal de entrada	341Vbd		
Voltaje de baja pérdida	281Vbd (8W)V T*4: 1Vbd ! 8W)Frfduspñ tujdpt*!		
Voltaje de retorno por baja pérdida	291Vbd (8W)V T*4: 211Vbd !8W)Frfduspñ tujdpt*!		
Voltaje de alta pérdida	391Vbd 8W		
Voltaje de retorno por alta pérdida	381Vbd 8W		
Max. voltaje de entrada AC	411Vbd		
Frecuencia nominal de entrada	61I !Q 71I !)Bvup.efufddj o*!		
Frecuencia por baja pérdida	51 2I !		
Frecuencia de retorno por baja pérdida	53 2I !		
Frecuencia de alta pérdida	76 2I !		
Frecuencia de retorno por alta pérdida	74 2I !		
Protección de cortocircuito de salida	Gvt jcrfi!		
Eficiencia (Modo en línea)	: 6& !)Dbsb! S-! cbuf sb! upubm f ouf! dbshbeb! *!		
Tiempo de transferencia	21n t!uqjpb!)V T*4: 31n t! uqjpb!)Frfduspñ tujdpt*!		
<p>Perdida de potencia en salida: Dvboep! f itvprtk! ef! f ousbeb! BD! dbf! b! 81W! it! qpu f odj! ef! tbrjeb! ejtn jovjs /</p>			

Ubcrn 3! Ftqf dggbdjpodf t! ef !m pep! jowf stps

MODELO DE INVERSOR	1.5KW	3KW	5KW
Potencia nominal	2,6LVB02/6L !	4LVB04L !	6LVB06L !
Forma de onda del voltaje de salida	P oeb! t jovtp jeb!trqvcb!		
Regulación del voltaje de salida	341Wbd 6&!		
Frecuencia de salida	61 I !		
Eficiencia pico	: 4&!		
Protección ante sobrecargas	6tA 241&!dbshb! 21tA 216& 241&!dbshb!		
Capacidad de sobretensión	3+! qpuf odj! opn job!traps! 6! tf hvoept!		
Voltaje DC de entrada nominal	35Wed		59Wed
Voltaje de inicio en frío	34/1Wed		57/1Wed
Voltaje de advertencia CC bajo			
A!dbshb! =!61&!	34/1Wed		57/1Wed
A!dbshb! !61&!	33/1Wed		55/1Wed
Voltaje de retorno tras advertencia por voltaje CC bajo			
A!dbshb! =!61&!	34/6Wed		58/1Wed
A!dbshb! !61&!	34/1Wed		57/1Wed
Bajo voltaje de corte CC			
A!dbshb! =!61&!	32/6Wed		54/1Wed
A!dbshb! !61&!	32/1Wed		53/1Wed
Alto voltaje de recuperación CC	43Wed		73Wed
Alto voltaje de corte de CC	44Wed		74Wed
Consumo sin cargas conectadas	=46 !		=61 !

Ubicación 4: Características de funcionamiento de la batería

Modo de carga mediante red			
MODELO DE INVERSOR	1.5KW	3KW	5KW
Algoritmo de carga	4. qbtpt!		
Corriente de carga AC (Max)	51Bn q!)A W ₀ >341Wbd ⁴ !	71Bn q!)A W ₀ >341Wbd ⁴ !	
Voltaje de carga Bulk	Batería bañada	3: /3!	
	Batería AGM / Gel	39/3!	
Voltaje de carga flotante		38Wéd	65Wéd
Curva de carga			
Modo de carga solar MPPT			
MODELO DE INVERSOR	1.5KW	3KW	5KW
Potencia máx. del campo FV	3111 !	5111 !	
Voltaje nominal FV	351Wéd		
Rango de voltaje del campo FV MPPT	231 491Wéd	231 561Wéd	
Voltaje max. del campo en cir. abierto	511Wéd	611Wéd	
Corriente de carga máxima (Cargador AC + cargador solar)	71B!	91Bn q!	

Ubicación 5: Características de funcionamiento de la batería

MODELO DE INVERSOR	1.5KW	3KW	5KW
Rango de temperatura de operación	. 21 D!up!61 D!		
Temperatura de almacenamiento	. 26 D !71 D!		
Humedad	6& !up!: 6& !I vn f ebel s f ruyb!)Tj o! d p o e f o t b d j o *		
Dimensiones (D*W*H), mm	211! y! 391! y! 4: 1!	226! y! 411! y! 551!	
Peso neto, kg	9/6!	:!	21!

SOLUCIONADOR DE PROBLEMAS

ProblemA	LCD/LED/Zumbador	Explicación / Posible causa	Qué hacer
Mb! vojebe! tf! bqbhb! bvupn ujb n f ouf! evsbouf! f rtrqspdf tp! ef! jojdp!	Mp! MDE! Q MFE! z! f rñ vn cbep! f t! b! s o! bdujpt! evsbouf! 4! f hvoept! z! rñf hp! tf! bqbhb! s o!	F rñvprubkf! ef! cbuf sb! f t! n vz! cbkp!)=2/ 2V0Df rñt	2/ Sf dbshvf! rñ! cbuf sb! 3/ Sf f n qrtadf! rñ! cbuf sb!
Tjo! sf tqvf tub! usb! f rñf odf oejep!	Tjo! joe jdbdp of t!	2/ F rñvprubkf! ef! cbuf sb! f t! f ydf t j! vbn f ouf! cbkp!)=2/5V0Df rñt 3/ Gvt jcrf! jof sop! e j! qbsbep!	2/ Dpoubduf! b! t v! df ousp! qbsb! sf . f n qrt! b! s f rñgvt jcrf! 3/ Sf dbshvf! rñ! cbuf sb! 4/ Sf f n qrtadf! rñ! cbuf sb!
Fyjtuf! t vn jojtusp! ef! rñ! sf e! qf sp! f rñ jowf stps! uscbkb! f o! n pep! cbuf sb!	F rñvprubkf! ef! f ousebe! tf! n vf tusb! dñ n p! 1! f o! rñ! qboubn! MDE! z! f rñ! MFE! wf sef! qbsqbe b!	F rñrqsuf dps! ef! f ousebe! e j! qbsbep! /	Dñ qsvf cf! t j f rñjof ssvqps! ef! DB! f tu ! e j! qbsbep! z! t j f rñ dbcrfbep! ef! DB! f tu ! c j! o! dp of dbe p!
	Mv ! wf sef! qbsqbe boep!	Dbrjeb! jot vgdj f ouf! ef! rñ! brjn f oubdj o! ef! DB! /) Ti psf! p! hf of sbeps*!	2/ Dñ qsvf cf! t j rñt! dbcrfb! BD! tp! n vz! ef rñbep! p! n vz! rñshpt! / 3/ Dñ qsvf cf! t j f rñf of sbeps! f tu ! uscbkboep! c j! o! p! f rñbohp! ef! vprubkf! ef! f ousebe! t f! i b! dpoghvsbep! qpsf dñ n f ouf! /) V T → B qrt! odf *! /
	Mv ! wf sef! qbsqbe boep!	Ftubcrñ db! TVC!) tprñs qsn f sp*! dñ n p! rñ! gv f ouf! qsp! sb! sb!	Dñ c j! rñ! qsp! sbep! ef! rñ! gv f ouf! ef! tbrjeb! b! VTC!) se! qsn f sp*!
Dvboep! tf! f odj oef! rñ! vojebe! f rñf m! jof sop! tf! f odj oef! z! bqbhb! sf qf uebn f ouf!	Mb! qboubn! MDE! z! rñt! MFE! qbsqbe b!	Mb! cbuf sb! f tu ! ef t dp of dbe b!	Dñ qsvf cf! t j rñt! dbcrfb! ef! cbuf sb! f tu ! c j! o! dp of dbe p!
F rñ vn cbep! t vf ob! dpoujovbn f ouf! z! f rñ MFE! spk! f tu ! f odf oejep!	D e jhp! ef! dñ rñ! 18!	Fsp! ef! tpcsf dbshb! / F rñjowf stps! f tu ! tpcsf dbshbep! b rñ 22! & ! z! f rñu j n qp! t f! i b! bdbcbep!	Sf ev db! rñ! dbshb! dp of dbe b! bqbhbep! b rñ vopt! f r vjapt!
		T j f rñvprubkf! ef! f ousebe! GWf t! n bzps r vf! rñ! f tqf d j g j b d j o! rñ! qpuf odj! ef! tbrjeb! t f! sf evdjs! / Fo! f tu! n pn f oup! t j rñt! dbshb! dp of dbe b! t p! n t! b rñt! r vf! rñ! qpuf odj! ef! tbrjeb! sf evdjeb! dbvts! vob! tpcsf dbshb!	Sf ev db! f rñ! ef! n evrñt! GW dp of dbe p! f o! t f sj! p! f rñ! ef! dbshb!
	D e jhp! ef! dñ rñ! 16!	Dpsupdjsdvj p! f o! tbrjeb!	Dñ qsvf cf! t j f rñdbcrfbep! f tu ! c j! o! dp of dbe p! z! f rñ jof! rñ! dbshb! bopsn b rñ
		Mb! uf n qf sbuvs! ef rñ dñ qp of ouf! ef rñ dpowf s j e p! jof sop! f t! t vqf sp! sb! 231! ! D!	Dñ qsvf cf! t j f rñg rñk! ef! b jsf! ef! rñ! vojebe! f tu ! c rñ r vf bep! p! t j rñ! uf n qf sbuvs! bn c j! ouf! f t! ef n bt j e p! b rñ!
	D e jhp! ef! dñ rñ! 13!	Mb! uf n qf sbuvs! jof sob! ef rñ dñ qp of ouf! jowf stps! f t! t vqf sp! sb! 211! ! D!	
	D e jhp! ef! dñ rñ! 14!	Tpcsf dbshb! f o! cbuf sb!	Ef wf rñb rñ! b rñ df ousp! ef! sf qbsdj o!
		F rñvprubkf! ef! cbuf sb! f t! n vz! b rñ!	Dñ qsvf cf! t j rñt! f tqf d j g j b d j p of t! z! o ! ef! cbuf sb! dñ qrt! rñ! ops n b!
	D e jhp! ef! dñ rñ! 12!	G rñ! ef! wf ouj b e p!	Sf f n qrt! df! f rñf ouj b e p!
	D e jhp! ef! dñ rñ! 17069!	Tbrjeb! bopsn b rñ) F rñvprubkf! ef! jowf stps! f tu ! qps! ef cbkp! ef! 2: 1Wbd p! f t! n bzps! ef! 371Wbd*	2/ Sf ev db! f rñ! ef! dbshb! dp of dbe b! / 3/ Ef wf rñb rñ! b rñ df ousp! ef! sf qbsdj o!
	D e jhp! ef! dñ rñ! 1901: 064068!	G rñ! ef! dñ qp of ouf! t! jof sop! /	Ef wf rñb rñ! b rñ df ousp! ef! sf qbsdj o!
	D e jhp! ef! dñ rñ! 62!	Tpcsf uf ot j o!	Sf jojdp! rñ! vojebe! t j f rñf ssp! wf rñ! b! pdvssjs! ef wf rñb rñ! b rñ df ousp! ef! sf qbsdj o!
	D e jhp! ef! dñ rñ! 63!	F rñvprubkf! CVT! f t! n vz! cbkp!	
D e jhp! ef! dñ rñ! 66!	Vprubkf! ef! tbrjeb! op! dñ qf otbep!		
D e jhp! ef! dñ rñ! 6: !	F rñvprubkf! ef! f ousebe! ef! Wf t! n bzps! ef! rñ! f tqf d j g j b d j p of t!	Sf ev db! f rñ! n f sp! ef! n evrñt! g rñ vprub j p! f o! t f sj!	

Apéndice: Tabla de tiempo de respaldo aproximado

Np ef rpl	Dbshb!)WB*!	Uj n qp!ef!sf tqbrp! A!35Wéd 211Bi!)n jo*	Uj n qp!ef!sf tqbrp! A!35Wéd 311Bi!)n jo*
2/6L !	261!	: 19!	3335!
	411!	55: !	2211!
	561!	449!	926!
	711!	333!	636!
	861!	288!	525!
	: 11!	235!	41 4!
	21 61!	221!	37: !
	2311!	: 6!	338!
	2461!	93!	2: 9!
	2611!	79!	275!

Np ef rpl	Dbshb!)WB*!	Uj n qp!ef!sf tqbrp! A!35Wéd 211Bi!)n jo*	Uj n qp!ef!sf tqbrp! A!35Wéd 311Bi!)n jo*
4L !	411!	55: !	2211!
	711!	333!	636!
	: 11!	235!	41 4!
	2311!	: 6!	338!
	2611!	79!	275!
	2911!	67!	237!
	3211!	59!	219!
	3511!	46!	: 5!
	3811!	42!	85!
	4111!	39!	78!

Np ef rpl	Dbshb!)WB*!	Uj n qp!ef!sf tqbrp! A!59Wéd 211Bi!)n jo*	Uj n qp!ef!sf tqbrp! A!59Wéd 311Bi!)n jo*
6L !	611!	724!	2399!
	2111!	379!	724!
	2611!	269!	513!
	3111!	222!	382!
	3611!	: 1!	326!
	4111!	87!	293!
	4611!	76!	25 2!
	5111!	61!	223!
	5611!	55!	211!
	6111!	51!	: 1!

Op ub ;f r u j n qp!ef!sf tqbrp! ef qf oef!ef! r t d r j e!ef! r t c b u f s b! r t b o u j f e b e!ef! r t c b u f s b!z!f r u j qp!ef!c b u f s b!
 M b t!f t qf d j j d b d j p o f t!ef! r t c b u f s b t! q v f e f d! w b s j s e f q f o e j f o e p!ef! r t e j g s f o u f t! d o c s j d b o u f t!