



PV Module Installation Manual



% Introduction

H,

This manual is valid for the module of JDGN solar.

The information in this manual is based on JDGN solar's knowledge and experience and is considered to be reliable; but such information, including product specifications (without limitation) and suggestion, does not have any significance as a warranty or constitute an express or implied guarantee. JDGN solar reserves the right to change this manual, PV Module, specifications, or product information sheets without prior notice.

JDGN solar shall not bear any expenses arising from damage, loss or installation, operation, use or maintenance if the use of this manual and the conditions or methods of installation, operation, use and maintenance of photovoltaic products are beyond JDGN solar's control. JDGN solar does not cover any legal liability beyond the due function and safety performance. This manual is for reference only. No license is granted by implication or otherwise under any patent or patent rights.

As for special modules, please install and use separately according to the module specifications or agreed terms in the contract.

If your questions are not adequately addressed in this manual, please contact your system supplier.

For more information, please visit website www.ztt.cn.

Product Identification

Each Module has three labels and provides the following information:

nameplate: describes the product type, rated power, rated current, rated voltage, open circuit voltage, short circuit current under standard test conditions, certification mark, weight, dimension etc.; And maximum system voltage, fuse current.

serial number and Bar Code Label : serial number has 16 digits; Each module has a unique serial number and bar code as a unique identifier , Each Module has three barcodes, one permanently laminated inside the Module ,this label can be normally found in the front side of corner; the other label is pasted on the rear side of the module. another label is pasted on the side of the module frame.

Removing the nameplate will make the JDGN warranty invalid .

&" Safe guideline

&" %; YbYfU` gUZYhm; i] XY`] bYg

8Ub[Yf* 8Ub[Yf Xi Y hc 9 YWwf] Wg\cW_





RG



AcXi`Y j c` hU[Y fUh] b[ž VcbXi Vhcf WffYbh fUh] b[ž Zi gY g] nYž UbX Vcbhf c` XYj] W` g] nY VcbbYVhYX
hc h\Y DJ ci hdi hž h\Y j U i Yg cZ =G7 UbX JC7 aUf_YX cb h\Y AcXi`Y g\ci`X VY ai`h] d`] YX Vm% &
h] aYg"
acXi`Yg] b h\]g Udd`] WUh] cb WUgg WUb VY i gYX] b gmgYag k] h\ 87AgR hU[Yg [fYUhYf h\Ub) \$J
cf &(\$K" acXi`Yg h\h dUgg =97*%+ \$ WUb VY Vcbg] XYfYX hc aYh h\Y fYei] fYaYbhg cZ gUZYhm@j Y`
=="

&" & DfcXi Vh DfchYVh] cb

8c bch UhhYadh hc fYacj Y h\Y AcXi`Y"

8c bch UhhYadh hc fYacj Y Ubm bUaYd` UhYg cf dUf hg"

8c bch cdYb h\Y ^i bVh] cb Vcl i bXYf Ubm WfWaghUbWg"

8c bch VcbbYVh VXcW_YX cf VcbhUa] bUhYX d` i [g"

Mti aUmcb` macX] Zmh\Y acXi`Yg UZhYf >8 Bfig kf] hhYb VcbZ] faUh] cb"

8cR bch UhhYadh hc XF]` ` \c`Yg] b h\Y acXi`Yg fIZcf YI Uad` Yž hc] bghU` ZUghYbYf gk"

I gY cb` m] bgi` Uh] cb hcc` g gdYW] U` Zcf Y` YVhf] WU`] bghU` Uh] cb"

8c bch i gY RUVcbWbhfUh] b[XYj Ugg flgi Wk Ug U a] ffcf cf `Ybgk hc hf m hc] bWYUgY h\Y dckYf

[YbYfUh] cb cZ h\Y AcXi`Y" Hgg U` ckg h\Y acXi`Yg hc VY XUaU[YX Ubb] bch Wj YfYK"

8c bch gei YYnYž \] hž cf gVUhW hW hYadYfX [`Ugg cZ h\Y d\chcj c` hU] WacXi`Y k] h\ g\Ufd cV^YVhg"

&" HfUbgdcfh UggGhcf b b



8c bch i gY h\Y W\W Y cf ^i bVh] cb Vcl hc `] Zh cf acj Y h\Y UggYaV mi bXYf Ubm W\ fW aghUbVWg°

8c bch d` UW\ Ubm \UfX cV^YVhg cb h\Y i ddYf UbX `ckYf gi fZUW\g cZ h\Y UggYaV m'

8c bch Yl dcgY h\Y gi fZUW\ cZ h\Y AcXi `Y hc aY\U] W\ ghfYgg"

8c bch ghUbX cb acXi `Yg"

8c bch Xfcd cf d` UW\ cV^YVhg cb h\Y acXi `Yg"

' " AY\U] W\ =bghU `Uh] cb

' "%g] hY gY` YVh] cb

acXi `Yg UfY W\fh] Z] YX hc ghUbXUfXg gi W\ Ug =97 *%&9 Zcf gUZY cdYfUh] cb] b a] `X kYUh\Yf

W\bx] h] cbg" K\Yb] bghU `] b[acXi `Yg Uh \] [Va[V]Yc] ža"



9bgi fY UXYei UhY j Ybh]`Uh` Uh h\Y VU` cZ h\Y AcXi`Y"

9bgi fY h\Y`cb[!hYfa gh]`hm cZ`h\Y gi ddcfh"

9bgi fY h\Y`Y YWfcl`a]` W`ffcg]cb]g bch Wli gYX Vm h\Y i gY cZ aYhU`g]b X]`Vh W`bhUW`
f]`Y" [fci bX k]fYgž gWfYkgž kUg\Yfgž YhWŁ"

5`ck Zcf ghfU]b! ZfYY Yl dUbg]cb UbX W`bhfUW`]cb Xi Y hc WXUb[Yg]b h\Y bUhi fU` UaV]Ybh
hYadYfUhi fY"

' "' I b]j YfgU`]bghU`Uh]cb

5ggYaV`Yg]bghU`YX]b gYf]Yg g\U` Ybgi fY h\Y gUaY cf]YbhUh]cb UbX]bW]bUh]cb 5b[`Y"

8] ZZYfYbWg]b cf]YbhUh]cb cf]bW]bUh]cb fIX ZZYfYbh]`i a]bUh]cbŁ Wb fYgi`h]b`cgg cZ ci hdi h
dckYf"

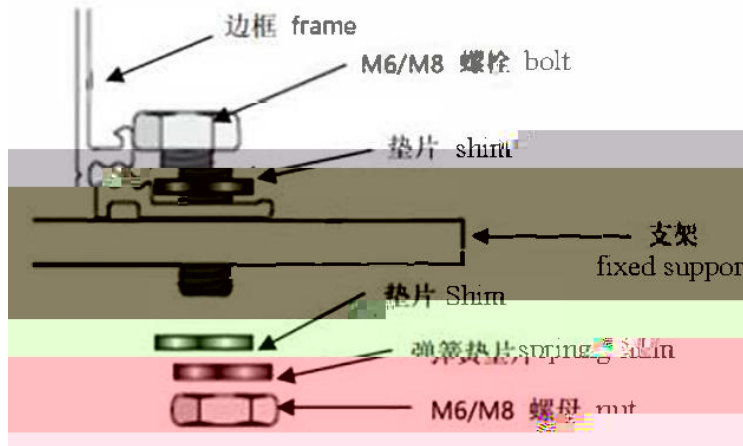


Figure1 Angle of Module installation

K\Yb XY]Y`cd]b[h\Y Z]bU``Unci h cZ h\Y DJ grghYaž UXYei UhY dYfgcbbY` UWWgg g\ci`X VY Ybgi fYX
Zcf gi VgYei Ybh aU]bhYbUbW` A]b]a]nY h\Y f]g_ cZ]bX]fYVh

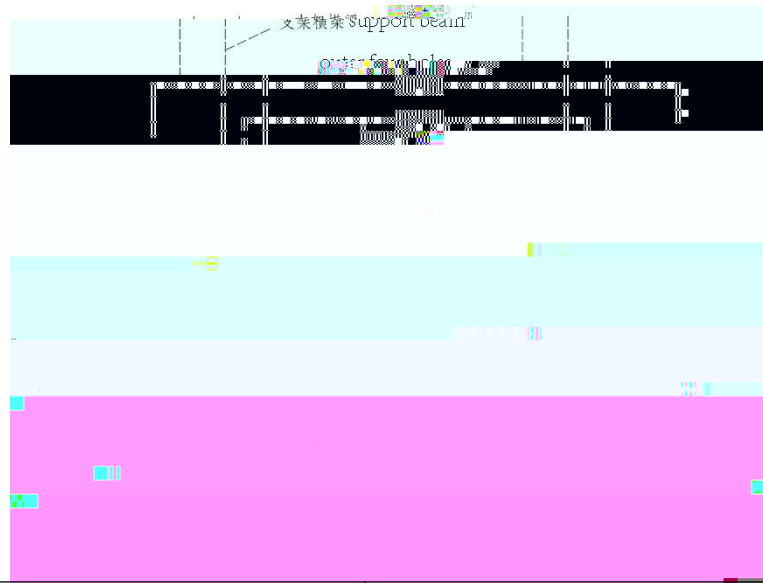
H\Y fYWtaaybXYX h] [\hYb] b[hcfei Y Zcf A* Vc` hg] g -! %& B aZ UbX h\Y fYWtaaybXYX h] [\hYb] b[hcfei Y Zcf A, Vc` hg] g %! &\$ B a" 5g Vc` h aUHyf] U` aUm VY X] ZZYfYbhZ h\Y gdYVW] Z] Whcfei Y j U i Y] g gi V^YVh hc h\Y WtbZ] faUh] cb cZ h\Y Vc` h gi dd`] Yf"

K\Yb gY` YVh] b[U ` \$aa \Y] [\h ZfUaY UggYaV mZ] h] g fYWtaaybXYX hc gY` YVh ZUghYbYfg k] h\ U ` Yb] h\ cZ ` Ygg h\Ub &\$aa"



' " (" % aci bh] b[\c` Y] bghU` Uh] cb

6c` h aci bh] b[acXY f] bbyf (\c` Yg dyfdYbX] W` Uf hc h\Y ` cb] g] XY



AcXi`Y hmdY	D\chcj c` hU] WacXi`Y g] nY @ Kl < flat	: ci f \c` Y aci bh] b[] b Vc` h flhYgh` cUX DUk
NH! B8+, <8	&(*) t % (t' \$) (\$DU#! & (\$DU
NH! B8+&<8	&&+, t % (t' \$) (\$DU#! & (\$DU



NH1 B8* \$<8	% \$, t %% (t' \$) (\$DU#! &(\$DU
NH1 B8) (<8	%+&&l %% (t' \$) (\$DU#! &(\$DU
NH1 B9(, <8	%+*&l %% (t' \$) (\$DU#! &(\$DU
NH1 B9** <8	&' , &l %% (t' \$) (\$DU#! &(\$DU

=bbYf Zci f \c` Y

Vc` h aci bh] b[

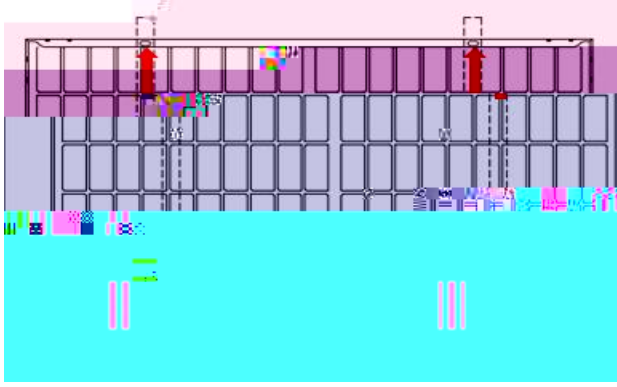
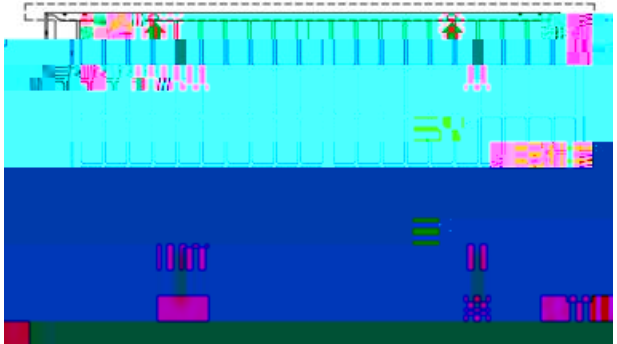
H\Y W\Ua]g

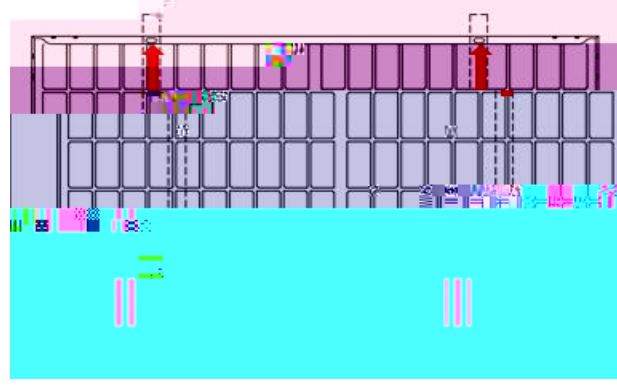
dYfdYbX] W` Uf hc

h\Y `cb[g]XY

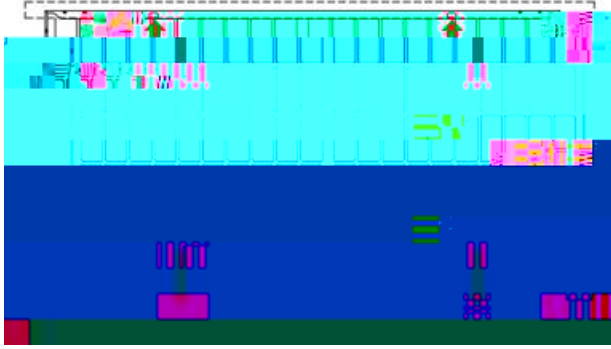


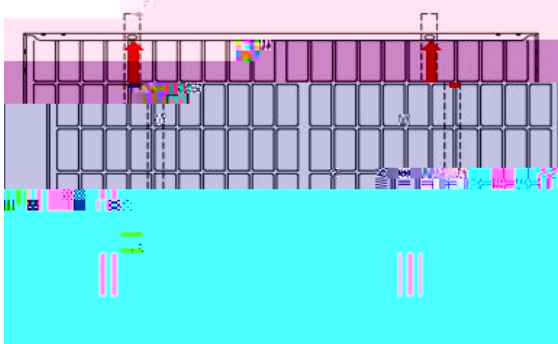
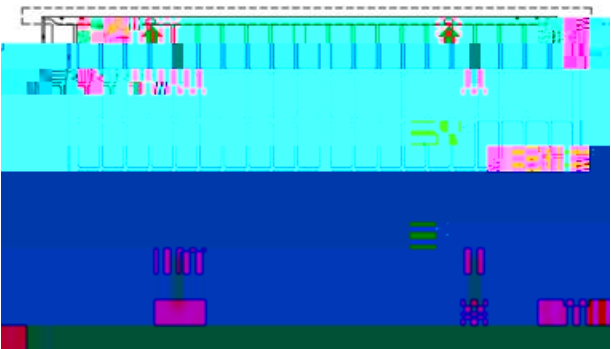
Jiangs

<p>NH B8* \$ < 8</p>	<p>% \$, † % († ' \$</p>	 <p>H\Y `cb[ZfUaY]g aci bhYX k]h\ (Vc` hg f% \$ \$aa \c` YgtŁ UbX h\Y [i]XY fU]`]g j Yfh]W]` m` cb[</p>	<p>) (\$ \$DU #! & (\$ \$DU</p>
		 <p>H\Y `cb[ZfUaY]g] bghU` YX k]h\ (Vc` hg fl+-\$ \$aa \c` YgtŁ UbX h\Y [i]XY fU]` W] bW]XYg k]h\ h\Y `cb[ZfUaY</p>	<p>' * \$ \$DU #! & (\$ \$DU</p>

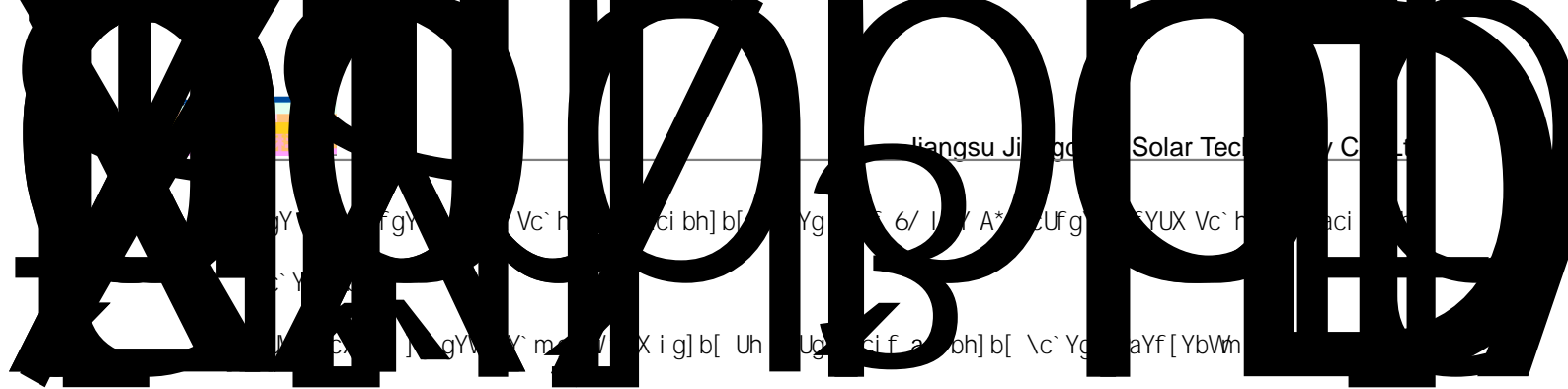
<p>AcXi `Y hmdY</p>	<p>D\chcj c` hU]W acXi `Y g]nY @ K† < flaŁ</p>	<p>=bghU` Uh] cb X] U[fUa</p>	<p>@cUX j U` i Y</p>
<p>NH B8+&<8 NH B9** < 8</p>	<p>&&+, † % († ' \$ &' , &† % († ' \$</p>	 <p>H\Y `cb[ZfUaY]g aci bhYX k]h\ (Vc` hg f% \$ \$aa \c` YgtŁ UbX h\Y [i]XY fU]`]g j Yfh]W]` m` cb[</p>	<p>) (\$ \$DU #! & (\$ \$DU</p>



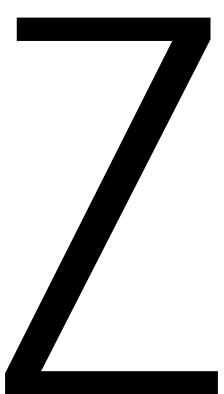
		 <p>H\Y `cb[ZfUaY]g]bghU` `YX k]h\ (Vc` hg fI%(\$\$aa \c` YgtŁ UbX h\Y [i]XY fU)` WŁ]bW]XYg k]h\ h\Y `cb[ZfUaY</p>	<p>' *\$\$DU #! &(\$\$DU</p>
--	--	---	--------------------------------------

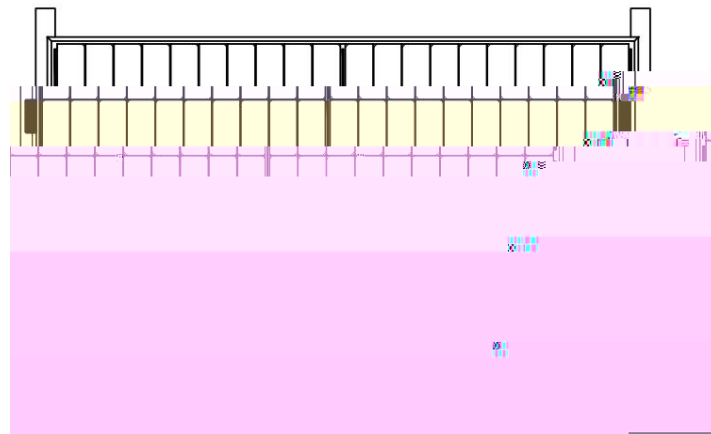
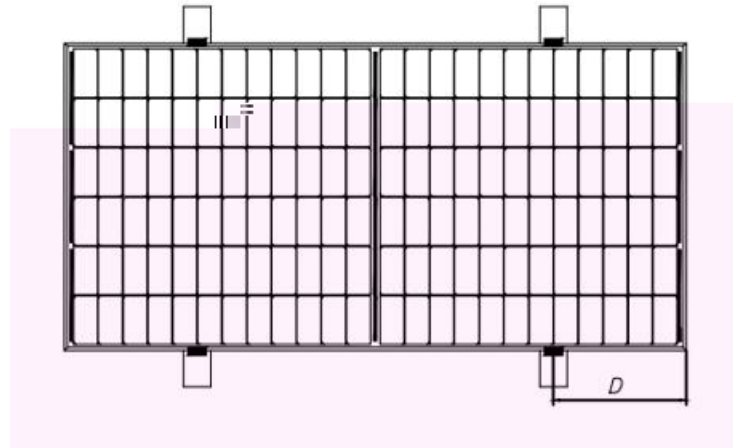
AcXi`Y hrdY	D\chcj c` hU]W acXi`Y g]nY @ Kf < flaaŁ	=bghU` Uh] cb X]U]fUa	@cUX j U` i Y
NH B8+, <8	&(*)f%% (f' \$	 <p>H\Y `cb[ZfUaY]g]bghU` `YX k]h\ (Vc` hg fI% \$\$aa \c` YgtŁ UbX h\Y [i]XY fU)`]g j Yfh]W] `m` cb[</p>	<p>)(\$\$DU #! &(\$\$DU</p>
		 <p>H\Y `cb[ZfUaY]g]bghU` `YX k]h\ (Vc` hg fI% \$\$aa \c` YgtŁ UbX h\Y [i]XY fU)` WŁ]bW]XYg k]h\ h\Y `cb[ZfUaY</p>	<p>' *\$\$DU #! &(\$\$DU</p>

acXi`Yg g\U` WY Vc` hYX hc h\Y gi ddcfh h\Yci [\ aci bh]b[\c` Yg` cW]hYX cb h\Y VUW_cZ h\Y ZfUaY"
8c bch Xf]`` UXX]h]cbU` \c` Yg cf mci k]`` bch WY WŁj YfYX"



UfY U`gc i gYX]Z h\YfY]g UXX]h]cbU`k]bX cf`gbck`cUX" GmghYa &Yg] [XYfg UbX]bghU`Yfg gYXngX
 WU`W`UhY h\Y`cUX]b UXj UbW`hc aU`Y h\Y Vcf [redacted]cfh ghfi Wni fY XYg] [b"
 I gY Uddf cdf] UhY Wcf]cb Pfg]ghUbh ZUghYbYfg]bWi X]b[Vc`hgZ`gdf]b[kUg\YfgZ` Uh kUg\YfgZ`
 bi hg" A, Vc`h h] [\hYb]b[hcfei Y fYZYfYbW j U i Y %* r &\$ B a/ H\Y fYZYfYbW hcfei Y cZ A* Vc`hg
 fUb[Yg Zfca - hc %* B a" 6YWi gY Vc`h aU`Yf]g`g`gmj Uf`h h\Y gdYW]Z]Whcfei Y j U i Y XYdYbXg
 cb h\Y Vc`h gi ddg]Yf fig VcbZ]faUh]cb" 5bX h\Y dUfhg]b VcbhUWh k]h\ h\Y ZfUaY g\U` i gY U Z` Uh
 kUg\Yf k]h\ U X]UaYhYf cZ %*aa cf Uvcj





:] [i f Y) H Y [i] X Y f U] `] g Z] h h Y X k] h \ U g \ c f h Z f U a Y

° BchY.

h\Y `Yb[h\ cZ h\Y VfUW_Yh ai gh VY `cb[Yf h\Ub h\Y g]nY cZ h\Y d\chcj c`hU]WacXi `Yž ch\Yfk]gY
] h g\ci `X VY WcbZ] faYX Vm>] Ub[Xcb[@[\h 9bYf[m]b UXj UbW/ H\Y UWcj Y X] U[fUa]g h\Y] bghU`Uh] cb
 aYh\cX i g]b[U`i a]bi a dfYgg]b[V`cW_g fIU gc _bckb Ug Z]I hi fYgE" 8]bX] WWhYg h\Y U`ckUV`Y
] bghU`Uh]cb fUb[Y cZ U`i a]bi a V`cW_" : cf gdYWZ] WfYWaaYbXYX] bghU`Uh]cb dcg]h]cbg UbX
 WcfYgdcX]b[cb! VcUfX j U`i Ygž gYY HUV`Y` / 9UWX U`i a]bi a V`cW_]g Z]hhYX k]h\ Ub A, Vc`hž hkc
 Z`Uh kUg\Yfgž U gdf]b[kUg\Yfž UbX Ub A, bi h" H\Y gYWf]b[ghYdg UfY Ug Zc``ckg.

D`UW h\Y UggYaV`mcb hkc gi ddcfhg flbch dfcj]XYXE" H\Y VfUW_Yh ai gh VY aUXY cZ ghU]b`Ygg ghYY`



cf \Uj Y VYyb hfYUhYX k]h\ Ubh]! Vtffcg] cb flgi WX Ug \ch! X]d [U j Ub] n]b[" 9UMX d\chcj c` hU] WacXi` Y bYYXg Uh` YUgh Zci f dfYgg V` cWg hc Z]I " 8i f]b[] bghU` Uh] cbz Xc bch` Yh h\Y dfYgg V` cW X] fYVh` m hci WX h\Y [`Ugg UbX XYZcfa h\Y ZfUaYz ch\Yfk]gY h\Y AcXi` Y k]` ` VY XUaU[YX"

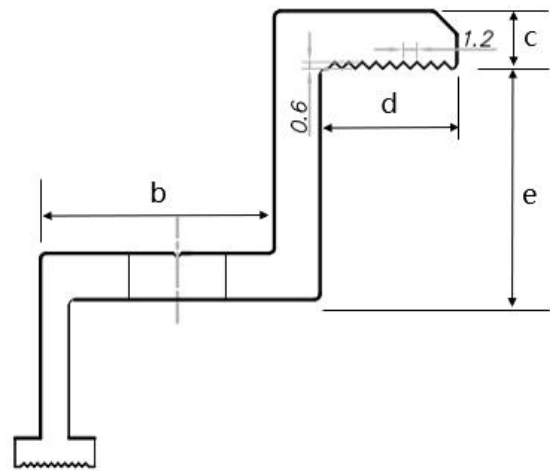
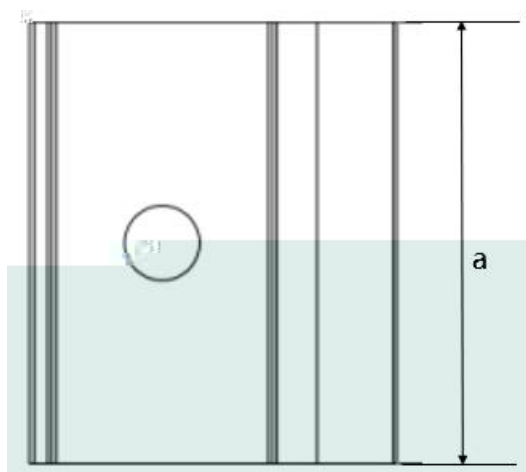
6Y gi fY hc Uj c]X h\Y g\UXck WUj gYX Vmh\Y Z]I hi fY cb h\Y AcXi` Y g\Y` X]b[YZZYVh` H\Y` YU` \c` Y g\ci` X bch VY V` cW\YX Vmh\Y Z]I hi fY" H\Y Z]I hi fY ai gh cj Yf` Ud k]h\ h\Y UggYaV` mZfUaY VmUh` YUgh , aa Vi h bch acfY h\Ub %aa flh\Y Z]I hi fY gYVh]cb WUb VY WXUb[YX]Z h\Y UggYaV` m]g] bghU` YX fY`]UW` nt"

H\Y i ddYf gi fZUW cZ h\Y VfUWYh]b VtbbUW k]h\ h\Y UggYaV` mZfUaY g\U` \Uj Y U [fccj Y aUhWX]b[h\Y A, Vc` h"

=Z h\YfY]g bc [fccj Y cb h\Y gi ddcfhz]h]g bYVWggUf mhc Xf]` ` U \c` Y k]h\ U gi]hUW` Y X]UaYhYf]b h\Y Uvcj Y aYbh]cbYX dcg]h]cb Zcf Vc` h Z]I]b["

9bgi fY h\Uh h\Y]bghU` Uh]cb gYei YbW cZ YUW dfYgg V` cW]g Z` Uh kUg\Yfz gdf]b[kUg\Yfz bi h"

:] [i fY + UbX , UfY h\Y gWYaUh] WX]U[fUa cZ h\Y V` cWz UbX :] [i fY - UbX :] [i fY %\$ UfY h\Y gWYaUh] W X]U[fUa cZ h\Y]bghU` Uh]cb cZ h\Y V` cW" H\Y g]nY cZ h\Y V` cW]g U *\$ aaž V %* aaž W) aaž X , aaž Y %aaž 1 - aaž UbX h\Y h\]WbYgg cZ h\Y V` cW]g 'aa" K\Yb Vc` hg UbX gWYkg UfY fUhYX , " , ž h\Y fYVtaaybYX h] [\hYb]b[hcfei Y]g %+ hc & B a"

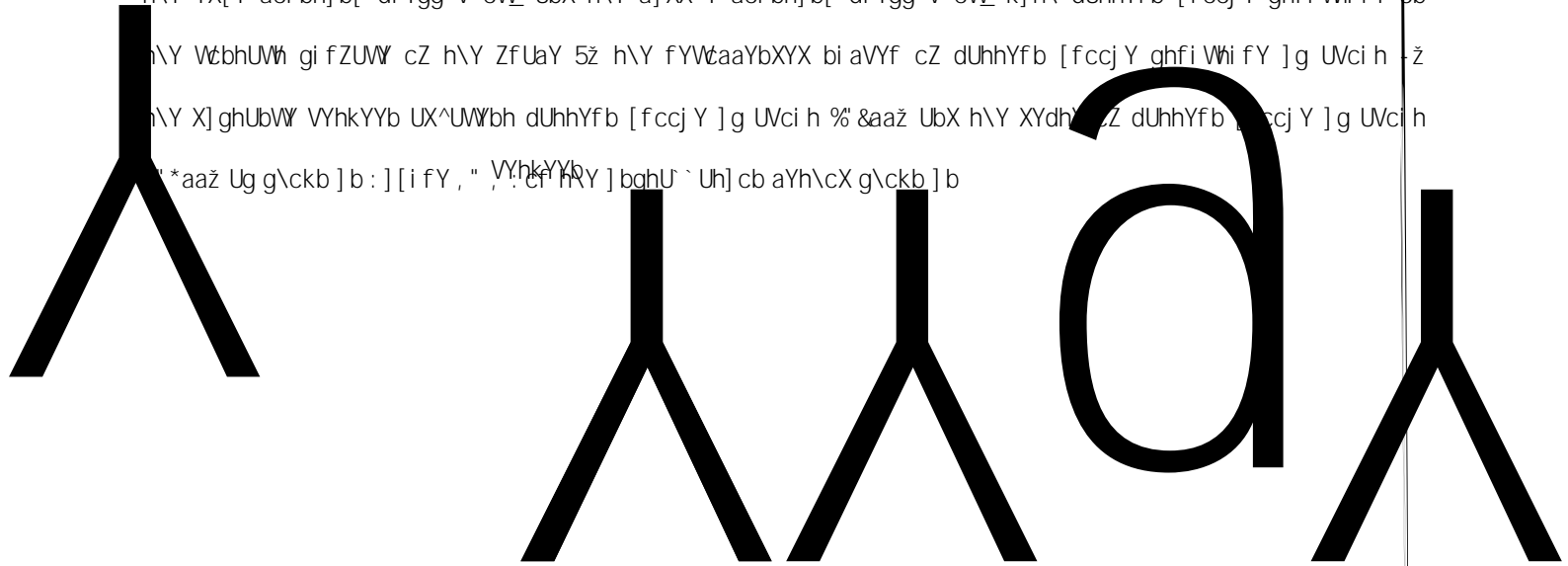


:] [i fY+ Hcd]Yk cZ g]XY dfYgg V` cW :] [i fY, 7fcgg! gYVh]cb X]U[fUa cZ h\Y g]XY dfYgg]b[V` cW



:] [i fY- =bghU`Uh] cb X] U[fUa cZ YX[Y V` cW_ :] [i fY%\$ =bghU`Uh] cb X] U[fUa cZ aYX] i a dfYggi fY V` cW_

Hc dfY] Ybh h\Y UggYaV` mZfca ZU`] b[cZZ h\Y ZfUaY UZhYf] bghU`Uh] cbz] h] g fYWaaYbXYX hc gY` YW`
h\Y YX[Y aci bh] b[dfYgg V` cW_ UbX h\Y a] XX` Y aci bh] b[dfYgg V` cW_ k] h\ dUhhYfb [fccj Y ghfi W`i fY` cb
h\Y W`bhUV` gi fZUW` cZ h\Y ZfUaY 5z h\Y fYWaaYbXYX bi aVYf` cZ dUhhYfb [fccj Y ghfi W`i fY`] g UVci h` z
h\Y X] ghUbW` VYhkYYb UX`UV`bh dUhhYfb [fccj Y`] g UVci h` % &aaZ UbX h\Y XYdh` cZ dUhhYfb [fccj Y`] g UVci h`
*aaZ Ug g\ckb] b :] [i fY , " , : cf` hY] bghU`Uh] cb aYh\cX g\ckb] b





aUhYf]U`g" : cf Yi Uad`Yž h] [\hYb h\Y A, Vc`h hc U hcf ei Y fUb[] b[Zfca %* hc &\$B a" 9bgi fY h\Uh
 h\Y W] adYf XcYg bch ZU]` Xi Y hc XYZcfaUh]cb cf Wfffcg]cb k\Yb h\Y k\c`Y AcXi`Y]g`cUXYX"

H\Y a] b] ai a fYWaaYbXYX`Yb[h\ cZ h\Y V`cW_]g) \$aaž cj Yf` Udd] b[h\Y UggYaV` mZfUaY VmUh`YUgh
 , aa Vi h bch acfY h\Ub %&aa"

=Z h\Y AcXi`Y]g bch] bghU`YX Ug XYgW] VYX UVcj Yž h\Y UWhi U`cUX VYUf] b[j U`i Y aUmVY fYXi W]X"

AcXi`Y hndY	D\chcj c`hU]W acXi`Y g]nY @ Kl < flakt	FYZYf hc :] [i fY ' Zcf] bghU`Uh]cb aYh\cXg	FYZYf hc :] [i fY (Zcf] bghU`Uh]cb aYh\cXg	FYZYf hc :] [i fY) Zcf] bghU`Uh]cb aYh\cXg
NHH B8) (<8	%+&& %%(i' \$	Ž' *\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 &**r(**aa	Ž) (\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 &**r(**aa	Ž% \$\$DU#! % \$\$DU Z]hh]b[`]a]h 8 %\$r &) \$aaDU
NHH B9(, <8	%+* & %%(i' \$	Ž' *\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 &**r(**aa	Ž) (\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 &**r(**aa	Ž% \$\$DU#! % \$\$DU Z]hh]b[`]a]h 8 %\$r &) \$aa
NHH B8*\$<8	% \$, i %%(i' \$	Ž' *\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 ' &\$r) &\$aa	Ž) (\$\$DU#! &(\$\$DU Z]hh]b[`]a]h 8 ' &\$r) &\$aa	Ž% \$\$DU#! % \$\$DU Z]hh]b[`]a]h 8 %\$r &) \$aa



Ž' *\$\$DU#! &(\$\$DU Ž) (
NHH B8+&<8 &&+, †%% (†' \$ Z] hh] b[`] a] h 8
(' \$r)' \$aa



K\Yb [\ j c` u[Y] f fYX gYj Y DJ acXi`Yg aUmVY WbbYWhYX] b gYf] Yg k] h\ U hchU
 j c` h\Y Yei U` hc h\Y ai a Z h\Y] YgdYWh] j Y j c` hU[Ygž dfcj] XYX h\Uh h\Y aUl] ai a j c` hU[Y cZ
 h\Y gmghYa ai gh V kYf Ub h\Y] ai a Wfh] Z] YX j c` hU[Y UbX h\Y aUl] ai a] bdi h j c` hU[Y cZ
 h\Y ZfYei YbVh Wbj YfhYf UbX ch\Yf Y` Wfh] WU` Yei] daYbh] b h\Y] bghU` YX gmghYa" H\Y aUl] aYa
 bi aYf cZ acXi`Yg] b gYf] Yg] g fBŁ gmghYa JaUl # oJcWf] b GH7Ł y O% fH! &) Ł ?j Qqž k\YfY.

GmghYa JaUl . h\Y gaU` Yf cZ h\Y \] [\Ygh Wfh] Z] YX j c` hU[Yž h\Y \] [\Ygh ci hdi h j c` hU[Y
 cZ h\Y gmghYa] bj YfhYf cf ch\Yf Y` Wfh] WU` Yei] daYbh

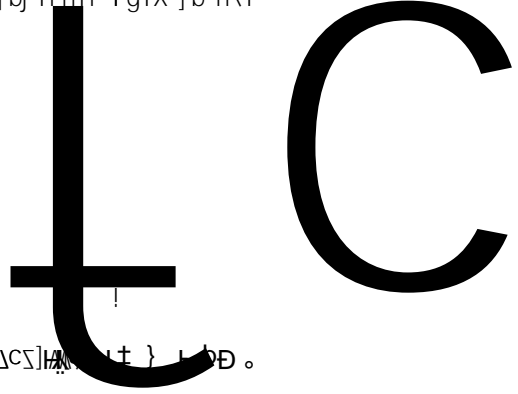
JcW d\chcj c` hU] WacXi`Y cdYb WfW] h j c` hU[Y fj Ł

h. 5aV] Ybh a] b] ai a HYadYfUhi fY flv 7Ł

?j. HPSHUDWpDcYZZ] WYbh cZ h\Y cdYb WfW] h j c` hU[Y cZ h\Y DJ acXi`Y fl# v 7Ł

!! gYY h\Y dfcXi W gdYW] Z] WUh] cb

± 7cbbYWh h\Y Uddfcd] UhY bi aYf cZ acXi`Yg UWcfX] b[hc h\Y j c` hU[Y gdYW] Z] WUh] cb cZ h\Y
] bj YfhYf i gYX] b h\Y



ΔCS] H... } L OΘ .

H] Σ

λΘ!

λ. λλW]]

SCX!

μΣ

K





WtbbYWh] cbg"

acXi`Y k] f] b[

\Y Y` YWhf] WU` dfcdYfh] Yg cZ h\Y acXi` Yg kYfY XYhYf a] bYX i bXYf ghUbXUfX hYgh WtbX] h] cbgž] " Y"

`] [\h] bhYbg] hU



cf h\Y j c`hU[Y X] ZZYfYbWV]g fYUh`h\Ub %\$Jž h\Y ghfi Whi fU` VčbZ] [i fUh]cb]g WXYW_YX VYZcfY
h\Y Wč`YVh]cb]g aUXY"

U`cb[Gc` Uffig gc` Uf`Xi` Yg i gY gdYVU` d\chcj c` hU] WVVV` Yg k] h\ U Wcgg! gYVh] cbU` UfYU
[fYUhYf h\Ub cf Yei U` hc (aa UbX UfY I J! dfccZ" 5` ch\Yf WVV` Yg i gYX hc VčbbYVh 87 grghYag
g\ci` X \Uj Y g]a]` Uf flcf \] [\YfŁ gdYVY]Z] VUh] cbg" >] Ub[Xcb[@[\h 9bYf[m fYVčaaYbXg h\Uh U`
WVV` Yg g\ci` X WY` U]X]b UddfcdF] UhY d] dY`]bYg cf WVV` Y g` chg UbX UkUm Zfca d` UWVg dfcbY hc
kUhYf UVVV ai` Uh]cb" H\Y j c` hU[Y cZ h\Y ghf]b[ai gh bch VY \] [\Yf h\Ub h\Y aU]]ai a j c` hU[Y h\Uh
h\Y grghYa WUb k] h\ghUbXž UbX h\Y aU]]ai a]bdi h j c` hU[Y cZ h\Y]bj Yfhyf UbX ch\Yf Y` YVhf] WU
Yei]daYbh]b h\Y]bghU` Uh]cb grghYa" Hc Ybgi fY h\]gž h\Y cdYb VYfWV]h j c` hU[Y cZ h\Y UffUm
bYYXg hc VY WU W` UhYX Uh h\Y `ckYgh YI dYVhYX UaV] Ybh hYadYfUhi fY Uh h\Uh `cWUh]cb"
H\Y ci hYf X]UaYhYf cZ h\Y WVV` Y fUb[Yg Zfca) aa hc +aa"

GdYVU` d\chcj c` hU] WVVV` Yg k] h\ U a]b]ai a hYadYfUhi fY UbX `] [\h fYg]ghUbWV` cZ -\$v 7 UbX U
Wcgg gYVh]cb cZ bch`Ygg h\Ub (aa g\U` VY i gYX Ug d\chcj c` hU] WVVčbbYVh]cb WVV` Yg Zcf cbg]hY
k]f]b[" K\Yb]bghU`]b[acXi` Yg cb h\Y fccZ h]`Yž]h]g fYVčaaYbXYX hc i gY (! *aa d\chcj c` hU] W
WVV` Yg"

H\Y a]b]ai a VYbX]b[fUX]i g cZ h\Y WVV` Y]g ('aa"

K]f]b[acXY

G\cfh`]bY ghfU] [\h VčbbYVh]cb hmdY 7

BchY. H\Y YbXg cZ h\Y i ddYf UbX `ckYf fckg bYYX

hc VY VčbbYVhYX]b gYf]Yg

JYfh]WU` UggYaV` m cZ acXi` Yg.

Gf`YVh U ghUbUX g\cfh WVV` Y



7cadd...
^ccgY Zfca ghUbXUFX`cb[WUV`Y Wghca

(" (YUfh\]b[V`bXi Wncf

acXi`Yg ai gh VY [fci bXYX" 9bgi fY h\Uh h\Y

acXi`Yg aYyh gUZYhm`YjY` ==ž UbX h\Uh h\Y [fci bX]b[aYh\cX V`ad`]Yg k]h\`cWU` bUh]cbU`ž
fY[]cbU`ž cf]bhYfbUh]cbU` fY[i`Uh]cbgž`Ukgž UbX ghUbXUFXgž UbX`cWU` Y`YWhf]WU`X]fYWh]j Yg
UbX fY[i`Uh]cbg" H\Y [fci bX V`bbYWh]cb g\ci`X VY dYfZcfayX Vm ei U]Z]YX Y`YWhf]WU`Ubg"

[fci bX]b[Udd`]Yg cb`mhc h\Y acXi`Yg k]h\ U ZfUaY" H\Y ZfUaY cZ h\Y V`adcbYbh ai gh VY dfcdYf`m
[fci bXYX" H\Y [fci bX k]fY ai gh VY dfcdYf`m gYWfYX hc h\Y UggYaV`m ZfUaY hc Ybgi fY [ccX
YbUbf]WU` V`bhUm]cYhg h\Y fYV`aaYbXYX hndY cf Yei]j U Ybh V`bbYWh]cb WUV`Y"

H\Y XYg][b cZ h\Y d\chcj c`hU]WacXi`Y i gYg UbcX]nYX V`ffcg]cb fYg]ghUbh U`i a]bi a U`cmZfUaY
Ug U f][]X gi ddcfh" =b cfXYf hc i gY gUZYhm]UbX Uj c]X h\Y XUaU[Y cZ`][\hb]b[UbX ghUh]W
Y`YWhf]WU`hnž h\Y ZfUaY cZ h\Y d\chcj c`hU]WacXi`Y ai gh VY [fci bXYX" K\Yb [fci bX]b[ž h\Y
V`bbYWh]cb XYj]WU` ai gh VY Zi hYm]b V`bhUWh k]h\ h\Y]bhYf]cf cZ h\Y U`i a]bi a U`cmUbX dYbYhfUhY
h\Y cl gXX Z]`a čYh\Y gXfZWW cZ gXY ZfUaY"

8cV`chVYf]`` Ubm UXX]h]cbU` [fci bX`c`Yg]b h\Y ZfUaY cZ h\Y d\chcj c`hU]WacXi`Y"

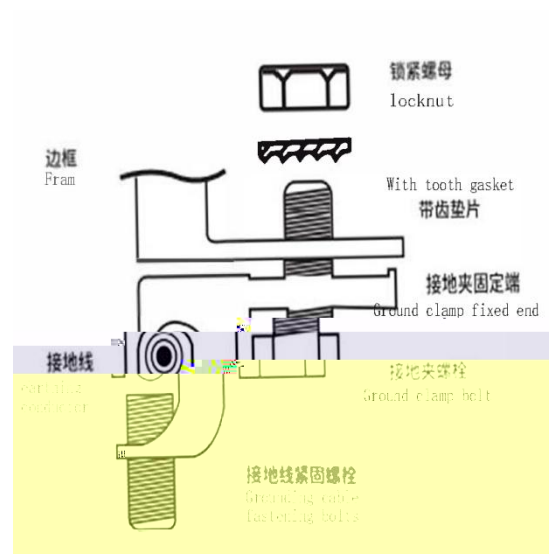
H\Y V`cYY aUf_YX k]h\ U [fci bX]b[`UVY` cb h\Y VcfXYf WU`b YWYghX]Zg [fci bX]b[cb`m`

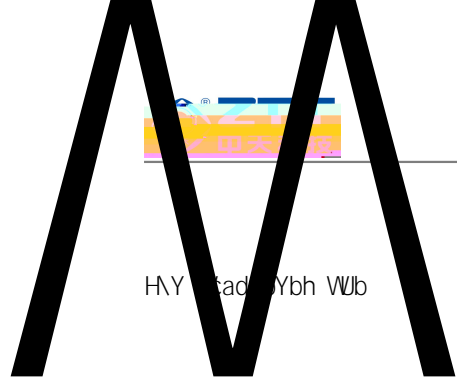
°Y ž j b



HY aYX] bY cZ h\Y [fci bX ` UWy` cj Yf` UddYX k] h\ h\Uh cZ h\Y \c` Y] b h\Y gUaY X] fYVh] cb Ug h\Y ` Yb[h\ cZ h\Y V` XYf" HY [fci bX] b[VYhkYYb acXi ` Yg ai gh VY VcbZ] faYX VmU ei U] Z] YX Y` YVhf] W] Ubz BbX h\Y [fci bX] b[XYj] W ai gh VY aUbi ZUWhi fYX VmU ei U] Z] YX Y` YVhf] W] aUbi ZUWhi fYf" HY nU [

零件 part	Schematic diagram	连接方式 link mode
		<p>Place star washers, flat washers, and ground wires in turn, thread screws through the ground clamp, and tighten them to secure adjacent components.</p>





Jiangsu Jiangdong Solar Technology Co.,Ltd

HY fad Ybh WJb



5ddYUfUbW]bgdYVh]cb cZ acXi`Yg J]gi U`m]bgdYVh h\Y UddYUfUbW cZ acXi`Yg Zcf XYZYVhgž]b
dUfh]W`Uf.

% H\Y [`Ugg cZ h\Y WzadcbYbh]g Vf_c_Yb"

&" 7cffcg]cb Uh h\Y kY`X]b[cZ h\Y VUhhYfmaU]b [UhY. Xi f]b[]bghU`Uh]cb cf hfUbgdcfhUh]cbž
h\Y gYfZUCh]c



VčbhU] b] b[U _U'] UbX UWYX hc WYUb acXi `Yg" 8i Y hc XUaU[Y Wli gYX Vm] adfcdYf WYUb] b[aYh\cXgž
>] Ub] Xcb[Gc` Uf @] a] hYX kUffUbhm k] `` VY j c] X
7\YW_ VčbbYWfcfg UbX WUV Yg
=h]g fYWčaaYbXYX hc dYfZcfa U dfYj Ybh]j Y]bgdYVh] cb Yj Yfm g]I acbh\g Ug Zc` `ckg.
% 7\YW_ h\Y h][\hbYgg cZ VčbbYWfcfg UbX h\Y h][\hbYgg cZ WUV Y VčbbYVh] cbg"
& 7\YW_ h\Y gYU Ubh Uh h\Y ^i bVh]cb Vcl hc Ybgi fY h\Uh h\YfY]g bc WUV] b[cf [Ud" 7\YW_
acXi `Yg Zcf g][bg cZ U[] b[" =bgdYVh U` k] f] b[Zcf fcXYbh XUaU[Y UbX aUhYf] U U[] b[ž UbX U`
VčbbYWfcfg Zcf h][\h VčbbYVh] cbg UbX Wčffcg] cb" 7\YW_ k\Yh\Yf acXi `Yg UfY dfcdYf` m[fci bXYX"
=Z Ubm\h] b[[cYg kfc b[ž d` YUgY \Uj Y]h]bj Ygh][UhYX Vm U ei U]Z] YX dYfgcb" BchY. FYUX h\Y
gYfj]WV]bghfi Vh] cbg Zcf Ć