Installation / User Manual

Photovoltaic Grid-connected Microinverter(Built-in WIFI-G3)

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Important Safety Instructions

5IJT NBOVBM DPOUBJOT JNQPSUBOU JOTUSVDUJPOT UP GPMMPX EVSJOH JOTUBMMBUJPO BOE NBJOUFOBODF PG UIF 1IPUPWPMUBJD (SJE DPOOFDUFE *OWFSUFS JDSPJOWFSUFS FYDMVTJWFMZ EFTJHOFE GPS FOTVSF UIF TBGF JOTUBMMBUJPO BOE PQFSBUJPO PG UIF . JDSPJOWFSUFS UIF GPMMPXJOH TZNCPMT BQQFBS UISPVHIPVU UIJT EPDVNFOU UP JOEJDBUF EBOHFSPVT DPOEJUJPOT BOE JNQPSUBOU TBGFUZ JOTUSVDUJPOT

4QFDJGJDBUJPOT TVCKFDU UP DIBOHF XJUIPVU OPUJDF QMFBTF FOTVSF ZPV BSF VTJOH UIF MBUFTU NBOVBM GPVOE BU UIF NBOVGBDUVSFS XFCTJUF

WARNING 5IJT JOEJDBUFT B TJUVBUJPO XIFSF GBJMVSF UP GPMMPX JOTUSVDUJPOT NBZ DBVTF B TFSJPVT IB[BSE PS QFSTPOOFM EBOHFS JG OPU BQQMJFE BQQSPQSJBUFMZ 6TF FYUSFNF DBVUJPO XIFO QFSGPSNJOH UIJT UBTL

NOTE 5IJT JOEJDBUFT JOGPSNBUJPO UIBU JT JNQPSUBOU GPS PQUJNJ[FE NJDSPJOWFSUFS PQFSBUJPO GPMMPX UIFTF JOTUSVDUJPOT TUSJDUMZ

Safety Instructions

- %0 /05 EJTDPOOFDU UIF 17 NPEVMF GSPN UIF . JDSPJOWFSUFS XJUIPVU EJTDPOOFDUJOH UIF "$ QPXFS
- 0OMZ RVBMJGJFE QSPGFTTJPOBMT TIPVME JOTUBMM BOE PS SFQMBDF UIF . JDSPJOWFSUFST
- 1FSGPSN BMM FMFDUSJDBM JOTUBMMBUJPOT JO BDDPSEBODF XJUI MPDBM FMFDUSJDBM DPEFT
- #FGPSF JOTUBMMJOH PS VTJOH UIF . JDSPJOWFSUFS QMFBTF SFBE BMM JOTUSVDUJPOT BOE DBVUJPOBSZ NBSLJOHT JO UIF UFDIOJDBM EPDVNFOUT BOE PO UIF . JDSPJOWFSUFS TZTUFN BOE UIF TPMBS BSSBZ
- #F BXBSF UIBU UIF CPEZ PG UIF . JDSPJOWFSUFS JT UIF IFBU TJOL BOE DBO SFBDI B UFNQFSBUVSF PG ¥ 5P SFEVDF SJTL PG CVSOT EP OPU UPVDI UIF CPEZ PG UIF . JDSPJOWFSUFS
- %0 /05 BUUFNQU UP SFQBJS UIF . JDSPJOWFSUFS *G JU GBJMT DPOUBDU UFDIOJDBM TVQQPSU UP PCUBJO B 3." OVNCFS BOE TUBSU UIF SFQMBDFNFOU QSPDFTT %BNBHJOH PS PQFOJOH UIF . JDSPJOWFSUFS XJMM WPJE UIF XBSSBOUZ
- $BVUJPO
  5IF FYUFSOBM QSPUFDUJWF FBSUIJOH DPOEVDUPS JT DPOOFDUFE UP UIF JOWFSUFS QSPUFDUJWF FBSUIJOH UFSNJOBM UISPVHI "$ DPOOFDUPS
  8IFO DPOOFDUJOH DPOOFDU UIF "$ DPOOFDUPS GJSTU UP FOTVSF UIF JOWFSUFS FBSUIJOH UIFO EP UIF %$ DPOOFDUJPOT
  8IFO EJTDPOOFDUJOH EJTDPOOFDU UIF "$ CZ PQFOJOH UIF CSBODI DJSDVJU CSFBLFS GJSTU

OVU NBJOUBJO UIF QSPUFDUJWF FBSUIJOH DPOEVDUPS JO UIF CSBODI DJSDVJU CFUXFFO QPXFS DPOOFDU UP UIF JOWFSUFS

UFO EJTDPOOFDU UIF %$ JOQVUT

✔ *O BOZ DJSDVNTUBODF

EP OPU DPOOFDU %$ JOQVU XIFO "$ DPOOFDUPS JT VOQMVHHFE

✔ 1MFBTF JOTUBMM JTPMBUJPO TXJUDIJOH EFWJDFT PO UIF "$ TJEF PG UIF JOWFSUFS

Radio Interference Statement

$&-& $ $PNQMJBODFǅ5IF FRVJQNFOU DBO DPNQMZ XJUI $&-& $

UP QSPUFDU BHBJOTU IBSNGVM JOUFSGFSFODF JO B SFTJEFOUJBM JOTUBMMBUJPO 5IF FRVJQNFOU DPVME SBEJBUF SBEJP GSFRVFODZ FOFSHZ BOE UIJT NJHIU DBVTF IBSNGVM JOUFSGFSFODF UP SBEJP DPNNVOJDBUJPOT JG OPU GPMMPXJOH UIF JOTUSVDUJPOT XIFO JOTUBMMJOH BOE VTJOH UIF FRVJQNFOU #VU UIFSF JT OP HVBSBOUFF UIBU JOUFSGFSFODF XJMM OPU PDDVS JO B QBSUJDVMBS JOTUBMMBUJPO *G UIJT FRVJQNFOU DBVTFT IBSNGVM JOUFSGFSFODF UP SBEJP PS UFMFWJTJPO SFDFQUJPO NFBTVSFT NJHIU SFTPMWF UIF JTTVFT

"

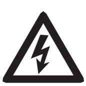
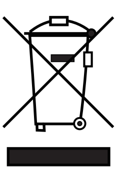
3FMPDBUF UIF SFDFJWJOH BOUFOOB BOE LFFQ JU XFMM BXBZ GSPN UIF FRVJQNFOU

#

$POTVMU UIF EFBMFS PS BO FYQFSJFODFE SBEJP 57 UFDIOJDBM GPS IFMQ

$IBOHFT PS NPEJGJDBUJPOT OPU FYQSFTTMZ BQQSPWFE CZ UIF QBSUZ SFTQPOTJCMF GPS DPNQMJBODF NBZ WPJE UIF VTFS T BVUIPSJUZ UP PQFSBUF UIF FRVJQNFOU

The Meaning of Symbols

$BO CF 0&.	5SBEFNBSL
	$BVUJPO SJTL PG FMFDUSJD TIPDL
	$BVUJPO SJTL PG CVSO %P OPU UPVDI
	$BVUJPO IPU TVSGBDF
	4ZNCPM GPS UIF NBSLJOH PG FMFDUSJDBM BOE FMFDUSPOJDT EFWJDFT BDDPSEJOH UP %JSFDUJWF &$ *OEJDBUFT UIBU UIF EFWJDF BDDFTTPSJFT BOE UIF QBDLBHJOH NVTU OPU CF EJTQPTFE BT VOTPSUFE NVOJDJQBM XBTUF BOE NVTU CF DPMMFDUFE TFQBSBUFMZ BU UIF FOE PG UIF VTBHF 1MFBTF GPMMPX MPDBM PSEJOBODFT PS 3FHVMBUJPOT GPS EJTQPTBM PS DPOUBDU BO BVUIPSJ[FE SFQSFTFOUBUJWF PG UIF NBOVGBDUVSFS GPS JOGPSNBUJPO DPODFSOJOH UIF EFDPNNJTTJPOJOH PG FRVJQNFOU

CE	$& NBSL JT BUUBDIFE UP UIF TFMMBS JOWFSUFS UP WFSJGZ UIBU UIF VOJU GPMMPXT UIF QSPWJTJPOT PG UIF &VSPQFBO -PX 7PMUBHF BOE &.$ %JSFDUJWFT
	3FGFS UP UIF PQFSBUJOH JOTUSVDUJPOT
2VBMJGJFE QFSTPOOFM	1FSTPO BEFRVBUFMZ BEWJTFE PS TVQFSWJTFE CZ BO FMFDUSJDBMMZ TLJMMFE QFSTPO UP FOBCMF IJN PS IFS UP QFSDFJWF SJTLT BOE UP BWPJE IB[BSET XIJDI FMFDUSJDJUZ DBO DSFBUF PS UIF QVSQPTF PG UIF TBGFUZ JOGPSNBUJPO PG UIJT NBOVBM RVBMJGJFE QFSTPO JT TPNFPOF XIP JT GBNJMJBS XJUI UIF PQFSBUJPO TZTUFN BOE & $ BOE JT BVUIPSJ[FE BOE UBH FRVJQNFOU TZTUFNT BOE DJSDVJUT JO BDDPSEBODF XJUI FTUBCMJTIFE TBGFUZ QSPDFEVSFT 5IF JOWFSUFS BOE FOEVTF TZTUFN NBZ POMZ CF DPNNJTTJPOFE BOE PQFSBUFE CZ RVBMJGJFE QFSTPOOFM

Microinverter System Introduction

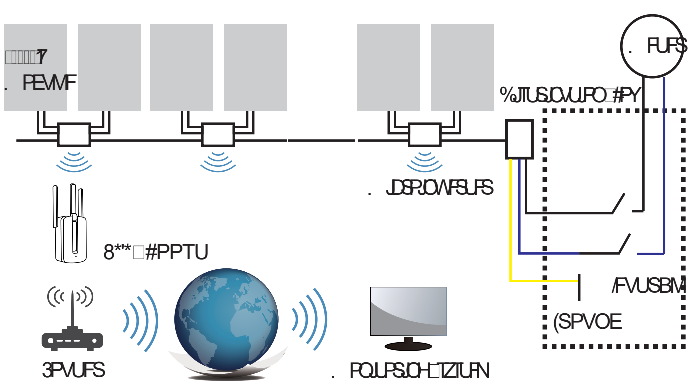
5IF . JDSPJOWFSUFS JT VTFE JO VUJMJUZ JOUFSBDUJWF HSJE UJFE BQQMJDBUJPOT DPNQSJTFE PG UXP LFZ FMFNFOUT

c . JDSPJOWFSUFS

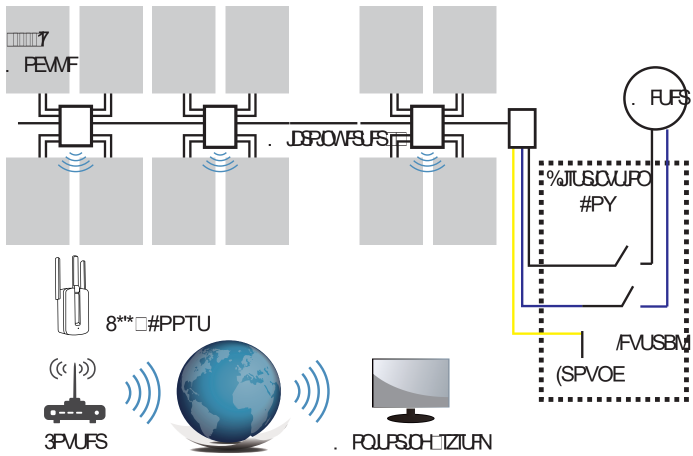
c 3PVUFS

5IJT TFSJFT NJDSPJOWFSUFS IBT CVJMU JO 8*'* NPEVMF TP JU DBO DPNNVOJDBUF XJUI SPVUFS EJSFDUMZ

300 / 500 / 600 / 800 / 1000G3



1300 / 1600 / 1800 / 2000G3



NOTE *G UF XJSFMFTT TJHOBM JO UF BSFB XFSF UF NJDSPJOWFSUFS JT XFBL JT XFBL
JU JT OFDFTBSZ UP BEE B XJGJ TJHOBM CPPTUFS BU B TVJUBCMF QMBDF CFUXFFO UF SPVUFS
BOE UF NJDSPJOWFSUFS

5IJT JOUFHSBUFE TZTUFN JNQSPWFT TBGFUZ NBYJNJ[FT TPMBS FOFSHZ IBSWFTU JODSFBTFT TZTUFN
SFMJBCJMJUZ
BOE TJNQMJGJFT TPMBS TZTUFN EFTJHO
JOTUBMMBUJPO
NBJOUFOBODF
BOE NBOBHFNFOU

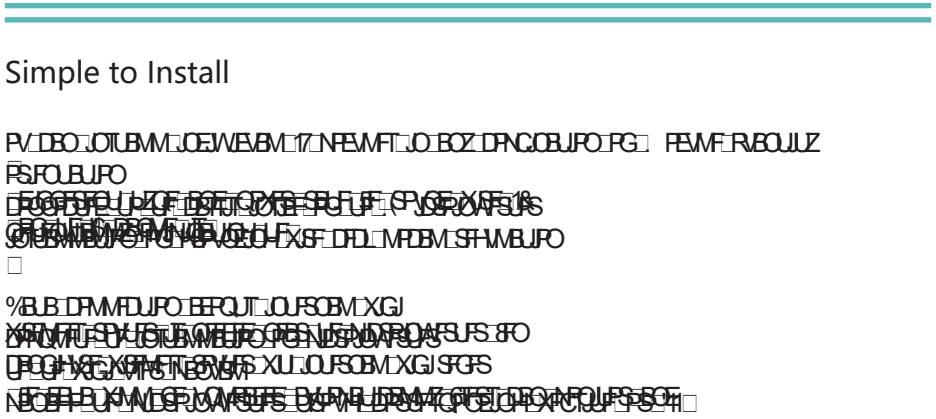
Microinverters Maximize PV Energy Production

&BDI 17 NPEVMF IBT JOEJWJEVBM .BYJNVN 1PXFS 1PJOU 5SBDLJOH . 115
XIJDI FOTVSFT UBU UF NBYJNVN QPXFS JT FYQPSUFE UP UF VUJMJUZ HSJE SFHBSEMFTT PG UF
QFSGPSNBODF PG UF PUIFS 17 NPEVMFT JO UF BSSBZ 8IFO 17 NPEVMFT JO UF BSSBZ BSF
BGGFDUFE CZ TIBEF
EVTU
VOFWFO QFSGPSNT DPNQBSFE XJUI UF PUIFS VOJUT
PSJFOUBUJPO
QFSGPSNBODF GSPN UF BSSBZ CZ NBYJNJ[JOH UF QFSGPSNBODF PG FBDI NPEVMF XJUIJO UF
BSSBZ JOTUBMMBUJPO JO XIJDI POF NPEVMF
BSSBZ

More Reliable than Centralized or String Inverters

5IF EJTUSJCVUFE . JDSPJOWFSUFS TZTUFN FOTVSFT UBU OP TJOHMF QPJOU PG TZTUFN GBJMVSF FYJTUT
BDSPTT UF 17 TZTUFN . JDSPJOWFSUFST BSF EFTJHOFE UP PQFSBUF BU GVMM QPXFS BU BNCJFOU
PVUEPPS UFNQFSBUVSFT PG VQ UP ¥
5IF JOWFSUFS IPVTJOH JT EFTJHOFE GPS
PVUEPPS JOTUBMMBUJPO BOE DPNQMJFT XJUI UF *1 FOWJSPONFOUBM FODMPTVSF SBUJOH

Simple to Install



Microinverter Introduction

Model Number	AC grid	Max. # Per branch
46/□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS
46/□□□□□(□□&6□□□□□	□□□□□] □□□□7	□□GPS□□"CSFBLFS

Microinverter System Installation

"17TZUFN.VTOH JDSPOWFSUST JT TNQMF UP JOTUBMM &BDI JDSPOWFSUS FBTJMZ NPVOUT PO UF 17 SBDLOH

T

4QFDJBM 4UBSUFOU 'O $ \$ EFWDF TPMVE CPU CF VTFE UP QSPUDU UF EFEJDBUE DJSDVU UP UF NDSPOWFSUS FWFO UPVH JU JT BO PVUEFDJSDVU POF PG UF TNBMM \$ EFWDFT N

WARNING 1SPGFSTJPOBM JOTUBMMBUJPO JO BDDPSEBODF XJUI PBM FMDUSJDBM DPEFT

WARNING #F BXBSF UBU JOWFSUFST TVDI BT DSPOWFSUS

WARNING #FGPSF JOTUBMMOH PS VTOH BO DSPOWFSUS

WARNING #F BXBSF UBU JOTUBMMBUPO PG UIJT FRVQNFOU JODMVEFT UF SJTL PG FMDUSJD

WARNING %P OPU UPVDI BOZ MJWF QBSUT JO UF TZTUFN

NOTE 4UPSOHMZ SFDPNNFOE UP JOTUBMM 4ASH QSPUDUPO %FWDFT JO UF EFEJDBUE NFUS CY

Additional Installation components

c '\$ BMF BOE FNBMF 'OUFSDPOOFDUPO \$POOFDUPST TPMVE TFQBSBUFMZ

c 4BMOH FOE DBQT TPMVE TFQBSBUFMZ

Required Parts and Tools from you

'O BEEJUPO UP ZPVS 17 BSSBZ BOE JUT BTTPDJBUF BSEXBSF JGNT

c 'O \$ DPOOFDUPO KVODUPO CPY

c PVOUJOH BSEXBSF TVJUBMF GPS NPVOUJOH BSEXBSF

c 4PDLFUT BOE XSFODFT GPS NPVOUJOH BSEXBSF

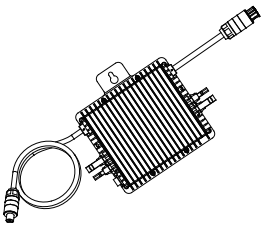
c \$PVOUPVPVT HSPVOEJOH DPOEVDUPS BOE HSPVOEJOH XBTIFST

c '1UMMJOT TDSFXESJWFS

c '1UPSRVF XSFODI

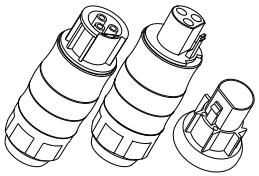
Parts list

Please check the following table, to see whether all the parts are included in the packageğ

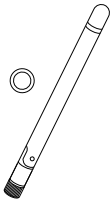


Microinverter x1

User manual x1



AC power connectors (optional) x1

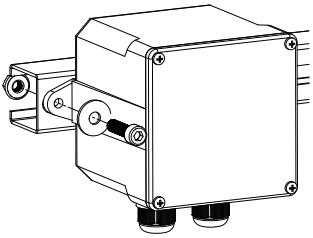


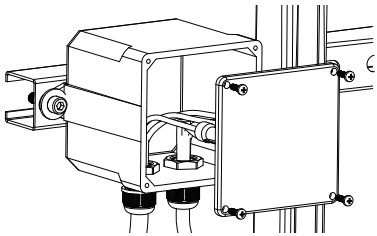
*Antenna for WIFI module x1

* This antenna is for microinverter that has built-in wifi module.

Installation Procedures

<;: 9 87868543;2118;0:8/.8-,24 +08+*,+) *;8() 4+;*' 48-' &





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UXQDBMMZBUUBDIFEBHBJOTUBMMBUJPOTUFQT

C $PODVUFRUIPXSFEGBTUFE$DBCMFJOUPUFKVODUJPOCPYVTJOHBOBQQSPQSJBUF

HMBEFSTUSBDTSMFGGUUDH

D 8SFUFDPEVDUSTPGUF$ 7BD
-STE/QMBDU1& ZMMPXHSFO
E $PODVUF$GSBDDBSZUKVODUJPOCPYUPUFCPJOUPGVUMUZOUSDPODUJPO

WARNING 8SOH DMPVSDIEFDBOCFEGGFSFOUBDDPSEJOHMPDBMSFHVMBUJPO
UFXSHFPG UFJOTUBMMBUJPOCFGPSFDPODUJOHUPUF$DBCMFUPCFTVSFUZNBUD
8SOHDBOMOHDBOEBNHFJSSFQBSBCMZUFNDSPOWSUST
TVDBTXRSVEJTCPUDPWFSE
OZUFXBSSBOUZ

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XUSFDDU UPUF7NEVMF
KVODUJPOCPYPSBOZPUSPCTUSVDUPT

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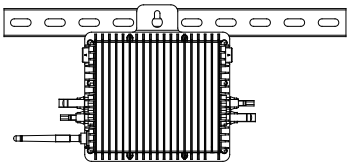

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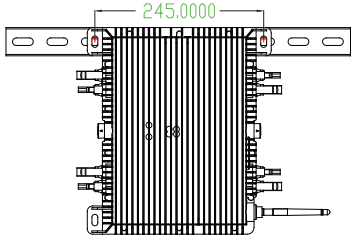
.PVOUJOH



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.PVOUJOH

WARNING: 1SPS UP JOTUBMMJOH BOZ PG UIFNDSPJOWFSUFST
BMXBZT EJTDPOOFDU UIF TZTUFN GSPN UIF HSJE BOE UIF QIPUPWPMUBJD NPEVMFT
BSF FYQPTFE UP UIF TVO

WARNING: %P OPU QMBDF UIF JOWFSUFST JODMVEJOH %$ BOE '$ DPOOFDUPST
XIFSF
FYQPTFE UP UIF TVO
SBJO PS
PWFSIFBE DPWFSJOH NBZ DBVTF NFMUJOH PG JOWFSUFS DPOOFDUPST

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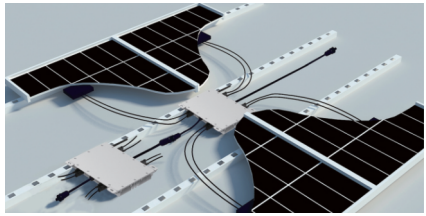

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DPOOFDU JO QBSBMMFM

B $FD UF JDSPJOWFSUFS UFDIOJDBM EBUB QBHF GPS UF NBYJNVN BMMPXBCMF OVNCFS PG

JDSPJOWFSUFST PO FBDI $CSBODI DJSDVU

C 1WH UF NBMF $DPOOFDUPS PG UF JDSPJOWFSUFS JOUP UF GNBMF DPOOFDUPS UP HFU JU

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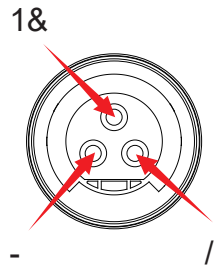

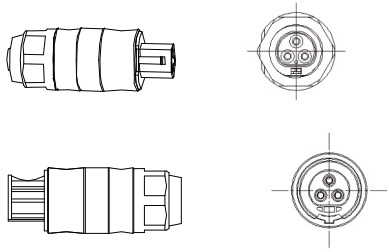

WARNING: %O /05 FYDFFE NBYJNVN OVNCFS PG JDSPJOWFSUFST JO BO '$ CSBODI
DJSDVU
BT EJTDVTTFE PO UF QBHF PG UIT NBOVBM

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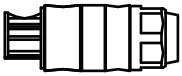

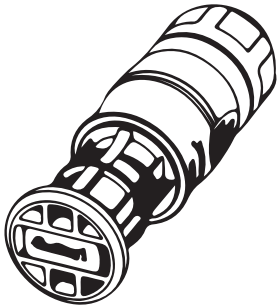

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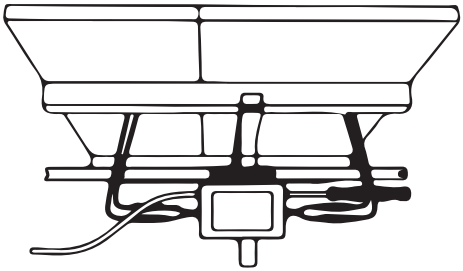
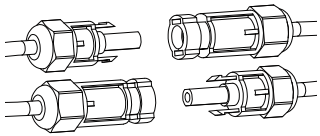




NOTE: 8FO QMVH JOH JO UF %$ DBCMFT
JNFSBUJWF TPMVUJPO JT PQUJCMF
UF $ JT PRUJBMBMCMF
VFSSFMHJP XMMGMVE UNFT RVDMZ BOE SFQBJBGUS POF TFDPOE

Microinverter System Operating Instructions

To operate the microinverter PV system:

5VSO 0 UF $ DJSDVJU CSFBLFS PO FBDI NJDSPJOWFSUFS $ CSBODI DJSDVJU

5VSO 0 UF NBJO VUJMJUZ HSJE $ DJSDVJU CSFBLFS PVS TZTUFN XMM TUBSU QSPEVDJOH
QPXFS BGUFS B PG NJOVUFT BMJOH UNF

5F VQUIT TPVME TUBSU CMJOLJOH SFE POF NJOVUFT BGUFS UVSOJOH PO UF $ DJSDVJU CSFBLFS
5FO CMVF MFE CMJOLJOH 5JT NFBOT UFZ BSF QSPEVDJOH QPXFS OPSNBMMZ
UF GSFRVFODZ PG UF CMVF MFE NFBOT NPSF QPXFS HFOFSBUFE

$POGJHVSF UF JOUFSOBM XGJ NPEVMF BDDPSEJOH UP JUT VTFS NBOVBM

5F . JDSPJOWFSUFST XJMM TUBSU UP TFOE QFSGPSNBODF EBUB PWFS XGJ NPEVMF UP UF OFUXPSL FWFSZ NJOVUFT 5F VTFS DBO NPOJUPS QFSGPSNBODF EBUB PG FBDI NJDSPJOWFSUFS UISPVH XFCTJUF BOE "11

NOTE 8FO $ QPXFS JT BQQMJFE CVU UF NJDSPJOWFSUFS OPU TUBSUFE VQ BOE PVUQVU 7" 8 DVSSFOU QPXFS JT GPS EFDJEJOH NJDSPJOWFSUFS NBZ CF NFBTVSFE CZ B QPXFS NFUFS 5JT OPU DPOTVNF GSPN VUJMJUZ HSJE

Troubleshooting

2VBMJGJFE QFSTPOOFM DBO VTF UF GPMMPXJOH USPVCMFTIPPUJOH TUFQT JG UF 17 TZTUFN EPFT OPU PQFSBUF DPSSFDUMZ

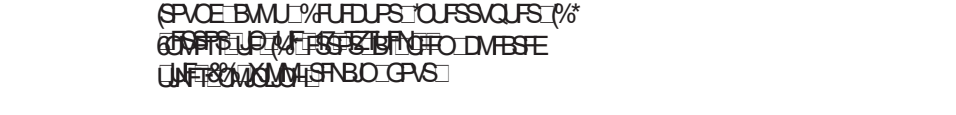
Status Indications and Error Reporting

4UBSU VQ -&%

0OF NJOVUF BGUFS %$ QPXFS JT GJSTU BQQMJFE UP UF NJDSPJOWFSUFS TIPSU SFE CMJOLT JOEJDBUF B TVDDFTTGVM NJDSPJOWFSUFS TUBSUVQ TFRVFODF 0OF FRVBM PS HSFBUFS UBO UXP TIPSU SFE CMJOLT BGUFS %$ QPXFS JT GJSTU BQQMJFE UP UF NJDSPJOWFSUFS JOEJDBUF B GBJMVSF EVSJOH NJDSPJOWFSUFS TFUVQ

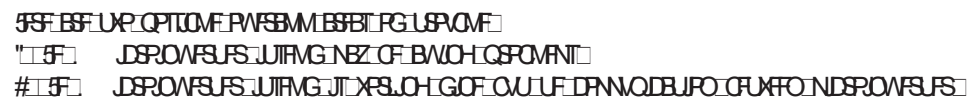
0QFSBUJPO -&%

MBTIJOH 4MPX #MVF 1SPEVDJOH TNBMM QPXFS
MBTIJOH BTU #MVF 1SPEVDJOH CJH QPXFS
MBTIJOH 3FE /PU QSPEVDJOH QPXFS
3FE CMJOLJOH UXP UJNFT $ MPX WPMUBHF PS IJH WPMUBHF
3FE CMJOLJOH UISFF UJNFT (SJE GBJMVSF



WARNING: Failure to ensure that the microinverter is properly grounded can result in electrical shock hazard.

Troubleshooting a non-operating Microinverter



%BHOPTJOH GSPN UF OFUXPSL

B P %BUB %JTQMBZ 5FYFDUJUF BOE "11 EPU UEJTQMBZ BOZ EBUB $FDUF OFUXPSL
DPOGJHVSBUJPO

C OOVZEJTQMBZ NDSPOWFSUFS JT PNMOF OVUPP EBUB 5JT NBZ GFDBVF TFSWFS JT
VOBWBJMBCMF

To troubleshoot a non-operating Microinverter, Follow the steps below in order:

7FSJGZ UF VUMJUZ WPMUBHF BOE GSFRVFODZ BSF XJUIJO TBGFUZ MJNJUT PG UF 5DDQDBM %BUB

TFDUJPO PG UJT NBOVBM

$FDUF DPOGJDUPO UP UF VUMJUZ HSJE %JTDPOEDU $JSDUVZ
UFO EJTDPOEDU %$ BOE
NBLF TVSF UF VUMJUZ HSJE WPMUBHF DBO CF NFBTVSFE BU $ DPOEDUPS AWFS EJTDPOEDU

UF %$ XJSFT XJMM UF NDSPOWFSUFS JT QSFVDIBSHFE QPXFS 3F DPOEDU UF %$ NPEVMF

DPOEDUPST BOE XBUDI GPS USFF TPU &% GMBTIFT

$FDUF $SBDDEDSVJUPS DPOEDUPO CFUXFO EBMM UF NDSPOWFSUFST 7FSJGZ

FBDJOWFSUFS JT FOHBHFE CZ UF VUMJUZ HSJE BT EFTDSJBE JO UF QSFWJPVT TUFQ

BLF TVSF UBU BOZ $SBBLFS BSF GVODUPOJOH QSPQFSMZ BOE BSF DMPTFE

$FDUF %$ DPOEDUPS CFUXFO UF NDSPOWFSUFS BOE UF 17 NPEVMF

7FSJGZ UF 17 NPEVMF %$ WPMUBHF JT XJUIJO UF BMMPXBCMF SBOHF TPPO JO UF 5DDQDBM

%BUB PG UJT NBOVBM

'G UF QSPMFN TUMM QSFTUT
QMFBTF DPOUBDU UFDQDBM TQQPSU

WARNING %PCFUBUFNQU UP SFQBJS UF NDSPOWFSUFS 'G USPVCMFIPPUJOH NFUFS GBJM
QMFBTF DBMM GPS 5DDQDBM 4VQQPSU

Replacement

Follow the procedure to replace a failed Microinverter

"□ %JTDPOOFDU□UF□ JDSPJOWFSUFS□GSPN□UF□17□ PEVMF
□+O□UF□PSEFS□TQFDJGJDBUJPOT□PG□ZPVS□17□NPEVMF□
□□□□□□□□□%JTDPOOFDU□UF□$□CZ□UVSOJOH□PGG□UF□GSBOD□DBCMF□
□□□□□□□□□%JTDPOOFDU□UF□$□DPOOFDUPS□PG□UF□NDSPJOWFSUFS□
□□□□□□□□□$PWFS□UF□NPEVMF□XJUI□QBSU□DPWFS□
□□□□□□□□□%JTDPOOFDU□UF□17□NPEVMF□%$□XJSF□DPOOFDUPST□GSPN□UF□ JDSPJOWFSUFS□
□□□□□□□□□3FNPWF□UF□ JDSPJOWFSUFS□GSPN□UF□17□BSSBZ□SBDLFU□

#□ 'OTUBMM□B□SFQMBDFNFOU□ JDSPJOWFSUFS□UP□UF□GSBDFU□UFO□3FNPWF□UF□QBSU□DPWFS□
□□□□□3FNPOFS□UP□PCTFSWF□UF□GMBTIJOH□&%□MHUBT□TPMJE□UF□OFX□ JDSPJOWFSUFS□JT□
□□□□□QMVHHFE□JOUP□UF□%$□DBCMF□

$□ $POOFDU□UF□$□DBCMF□PG□UF□SFQMBDFNFOU□ JDSPJOWFSUFS□

Technical Data

WARNING□ #F□TVSF□UP□WFSJGZ□UF□WPMUBHF□BOE□DVSSFOU□TQFDJGJDBUJPOT□PG□ZPVS□17□NPEVMF□
NBUDI□XJUI□UIF□ JDSPJOWFSUFS□□1MBTF□SFGFS□UP□UF□EBUBTIFFU□PS□WFS□NBOVBM□

WARNING□ PW□NVTU□NBUDI□UF□%$□PQFSBUJOH□WPMUBHF□SBOHF□PG□UF□17□NPEVMF□XJU□
UF□BMMPXBCMF□JOQVU□WPMUBHF□SBOHF□PG□UF□JDSPJOWFSUFS□

WARNING□ 5F□NBYJNVN□PQFO□DJSDVJU□WPMUBHF□PG□UF□17□NPEVMF□NVTU□OPU□FYDFFE□
UF□TQFDJGJFE□NBYJNVN□JOQVU□WPMUBHF□PG□UF□JOWFSUFS□

300G3/500G3/600G3 Microinverter Datasheet

. PEEFM	46/ □□□(□ □86□□□□	46/ □□□(□ □86□□□□	46/ □□□(□ □86□□□□
Input Data (DC)			
3FDPNNFOEFE□JOQVU□QPXFS45$	□□□_□□□8	□□□_□□□8	□□□_□□□8
. BYNVN□JOQVU□%$□WPMUBHF	□□7		
. 115□7PMUBHF□3BOHF	□□_□□7		
0QFSBUJOH□%$□7PMUBHF□3BOHF	□□_□□7		
. BY□%$□TFSJFT□SFTJTUBODF	□□□□"		□□□□'Y□
. BY□JOQVU□DVSSFOU	□□"		□□'Y□
Output Data (AC)			
3BUFE□PVUQVU□1PXFS	□□□8	□□□8	□□□8
3BUFE□PVUQVU□$VSSFOU	□□□□□□□□"	□□□□□□□□"	□□□□□□□□"
/ PNJOBM□WPMUBHF□□□SBOHF	□□□7□□□□□6O□□□6O□□□□□□□□□7□□□□□□6O□□□□6O□□		
/ PNJOBM□GSFRVFODZ	□□□□□□) [		
&VSPQFF□GSFRVFODZ□□□SBOHF	□□) [□□□) [□□□) [□□□□□□□□][□□□)[□□□) [		
1PXFS□GBDUPS	□		
. BYNVN□VQU□QFS□CSBODI	□□	□□	□
. BY□BMMPXFE□BMUFSOBUJOH	ģ□□□□N		
. BY□JOWFSUFS□GBDJMJUBUF DVSSFOU□UP□UF□BSBZ	□"		
. BY□PVUQVU□GBVMU□DVSSFOU	□□"		
. BY□PVUQVU□PWFSDVSSFOU□QSPUFDUJPO	□□□□□□□□"	□□□□□□□□"	□□□□□□□"
Efficiency			
$$□XFJHUFE□FGGJDJFODZ	□□□		
1FBL□JOWFSUFS□FGGJDJFODZ	□□□□□□		
4UBUJD□ 115□FGGJDJFODZ	□□□		
/ JHU□UNF□QPXFS□DPOWFSUJPO	□□N8		
Mechanical Data			
'NCJFOU□UFNQFSBUVSF□SBOHF	□□□□¥□_□		
%JNFOTJPOT8□) □%□□NN	□□□□□□□□□□□□□□NN□%FFTJOH□DPNQMJBOU	□□□□□□□□□□□□□□NN□ %FFTJOH□DPNQMJBOU	
8FJHIU□LH	□		□□□
$PPMJOH	/ BUVSBM□$POWFDUJPO□□□/P□BOT		
&ODMPTVSF□PWFSPNPUJBM□SBUJOH	*1□□		
1SPUFDUJWF□DMBTT	$MBTT□*		
Features			
$PNQBUJCJMJUZ	$PNQBUJCMF□XU□□ □□□DBMJCSBUJPO□NFBTVSFT		
$PNNVOJDBUJPO	1PXFS□MJOF□□□&U□□□;JHCFF		
$PNQMJBODF	&/ □□□□□□		
8BSSBOUZ	7%&□□□□□ 7%&□□□□□ *&$□□□□□□ $& */. &530	□□□□FBST	

800G3/1000G3 Microinverter Datasheet

. PEFM	46/ □□□(□ □86□□□□	46/ □□□□(□ □86□□□□
Input Data (DC)		
3FDPNNFOEFE□JOQVU□QPXFS45$	□□□_□□□8	□□□_□□□8
. BYNVN□JOQVU%$□WPMUBHF	□7	
. 115□7PVUBHF□3BOHF	□□_□□7	
0QFSBUJOH□%$□7PVUBHF□3BOHF	□□_□□7	
. BY□%$□TPSU□DJSDVJUDVSSFOU	□□□□"Y□	
. BY□JOQVUDVSSFOU	□□"Y□	
Output Data (AC)		
3BUFE□PVUQVU□1PXFS	□□□8	□□□□8
3BUFE□PVUQVU□$VSSFOU	□□□□□□□□"	□□□□□□□□□"
/ PNJOBM□VPMUBHF□□□SBOHF	□□□7□□□□□6O□□□□6O□□□□□□□□7□□□□□□6O□□□□6O□	
/ PNJOBM□GSFRVFODZ	□□□□□□) [	
&VSPQFBO□GSFRVFODZ□□□SBOHF	□□) [□□□) [□□□) [□□□□□□□□][□□□)[□□□) [	
1PXFS□GBDUPS	□	
. BYNVN□VQU□QFS□CSBODI	□	□
. BY□BMMPXFE□BMUJUVEF□RQFSBUJOH	g□□□□□N	
. BY□JOWFSUFS□GBDJGFE DVSSFOU□UP□UFSSBEZ	□"	
. BY□PVQUGBMUDVSSFOU	□□"	
. BY□PVQUPWFSDVSSFOU□QSPUFDUPO	□□□□□"	□□□□□"
Efficiency		
8□XFJHUFE□FGGJDJFODZ	□□□	
1FL□JOWFSUFS□FGGJDJFODZ	□□□□□	
4UBUJD□ 16□FGGJDJFODZ	□□□	
/ JHU□UNF□QPXFS□DPOWFSUJPO	□□N8	
Mechanical Data		
'NCJFOU□UFNQFSBUVSF□SBOHF	□□□□¥□_□	
%JNFOTJPOT8□) □%□□NN	□□□□□□□□□□□□NN□ %FFT□OPU□JODMVEF□DBCMF	
8FJHIU□LH	□□□	
$PPMJOH	/ BJSCM□$PPMFEJUPO□□□/P□BOT	
&ODMPTVSF□FOWJSPONFOUBM□SBUJOH	*1□□	
1SPUFDUJWF□DMBTT	$MBTT*	
Features		
$PNQBUJCJMJUZ	$PNQBUJCMF□XU□□ □□□DBMM□7□NBWMFT 1PXFS□MJDF□□□&U□□□;HOFF	
$PNNVOJDBUJPO		
$PNQMJBODF	&/ □□□□□□ 7%&□□□□□ 7%&□□□□□ *8$□□□□□□ $8& */ &530	
8BSSBOUZ	□□□FBST	

1300G3/1600G3/1800G3/2000G3 Microinverter Datasheet

. PEFM	46/ □□□□(□ 46/ □□□□(□ 46/ □□□□(□ 46/ □□□□(□
	□86□□□□ □86□□□□ □86□□□□ □86□□□□
Input Data (DC)	
3FDPNNFOEFE□JOQVU□QPXFS45$	□□□□_□□□8 □□□□_□□□8 □□□□_□□□8 □□□□_□□□8
. BYNVN□JOQVU□%$□WPMUBHF	□7
. 115□7PMUBHF□3BOHF	□□_□□7
0QFSBUJOH□%$□7PMUBHF□3BOHF	□□_□□7
. BY□%$□TPSU□DVSSFOU	□□□□"Y□
. BY□JOQVU□DVSSFOU	□□"Y□ □□"Y□ □□"Y□ □□"Y□
Output Data (AC)	
3BUFE□PVUQVU□1PXFS	□□□□8 □□□□8 □□□□8 □□□□8
3BUFE□PVUQVU□$VSSFOU	□□□□□□□□" □□□□□□" □□□□□□□□" □□□□□□□□"
/ PNJOBM□WPMUBHF□3BOHF	□□7□□□□□6O□□□6O□□□□□□7□□□□□6O□□□6O
/ PNJOBM□GSFRVFODZ	□□□□□□) [
&VSPQFBO□GSFRVFODZ□3BOHF	□□) [□□□) [□□□) [□□□□□□□□]□□□)[□□□) [
1PXFS□GBDUPS	□
. BYNVN□VQU□QFS□CSBODI	□ □ □ □
. BY□BMMPXFE□BMUJUVEF□RQFSBUJOH	g□□□□□N
BY□OWFSUFS□CEDGFE DVSSFOU□UP□UFBSEZ	□"
. BY□PVQUQU□GBMUDVSSFOU	□□"
. BY□PVQUQU□PWFSDVSSFOU□QSPUFDUPO	□□□□□□□" □□□□□□" □□□□□□" □□□□□□□"
Efficiency	
$$□XFJHUFE□FGGJDJFODZ	□□□
1FL□JOWFSUFS□FGGJDJFODZ	□□□□□□
4UBUJD□ 115□FGGJDJFODZ	□□□
/ JHU□UNF□QPXFS□DPOWFSUJPO	□□N8
Mechanical Data	
'NGJOU□UFNQFSBUVSF□SBOHF	□□□□¥□_□
%JNFOTJPOT8□) □%□□NN	□□□□□□□□□□□□□□□NN□¥ %FFT□OPU□JODMVEF□DBCMF
8FJHIU□LH	□□□
$PPMJOH	/ BUVSBM□$PPWFDUJPO□□□/P□BOT
&JOMPTVSF□PWFSPOFQUBM□SBUJOH	*1□□
1SPUFDUJWF□DMBTT	$MBTT*
Features	
$PNQBUJCJMJUZ	$PNQBUJCMF□XU□□□ □□□DBMJ7NBEWMFT
$PNNVOJDBUJPO	1PXFS□MJDF□□□8U□□□;HOFF
$PNQMJBODF	&/ □□□□□□
8BSSBOUZ	7%&□□□□□ □□□FBST 7%&□□□□□ *8$□□□□□ $& */ &630

Wiring Diagram

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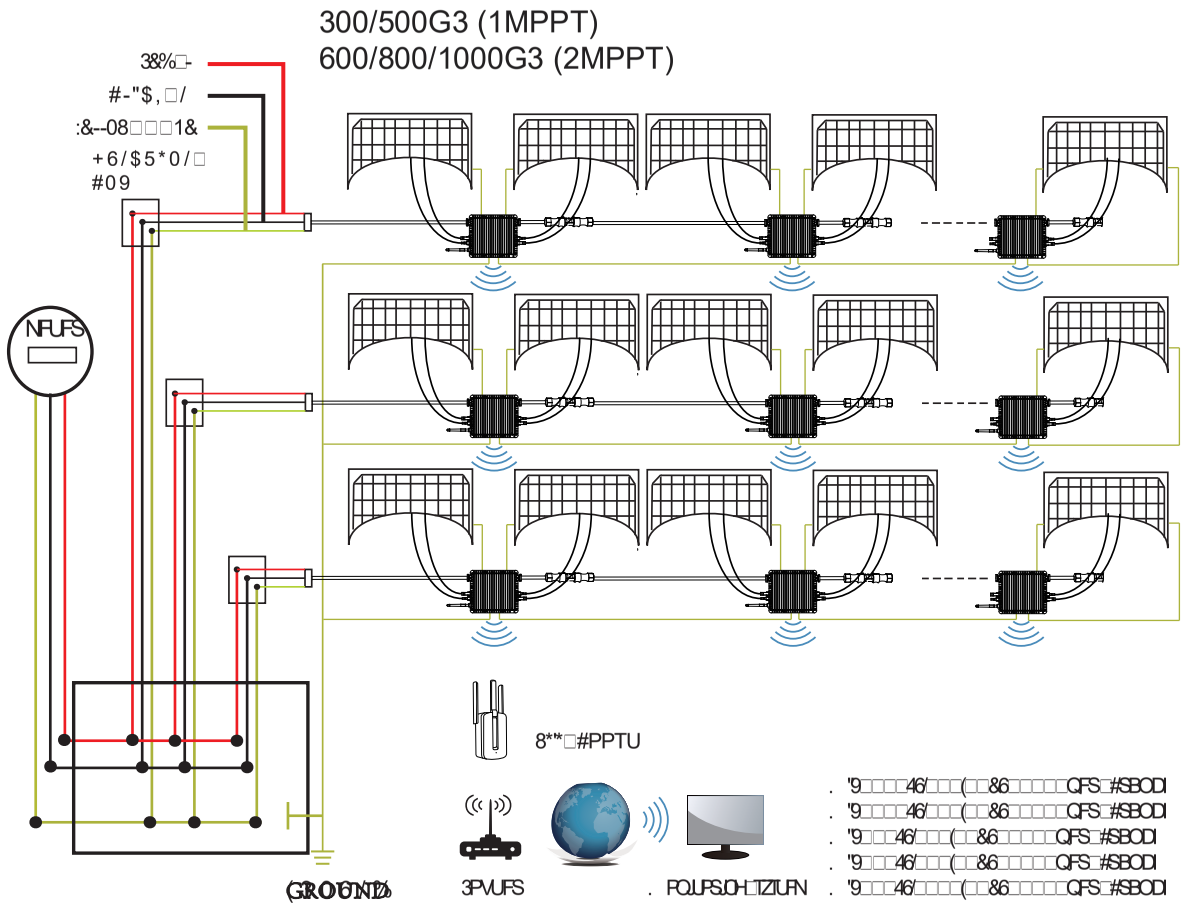
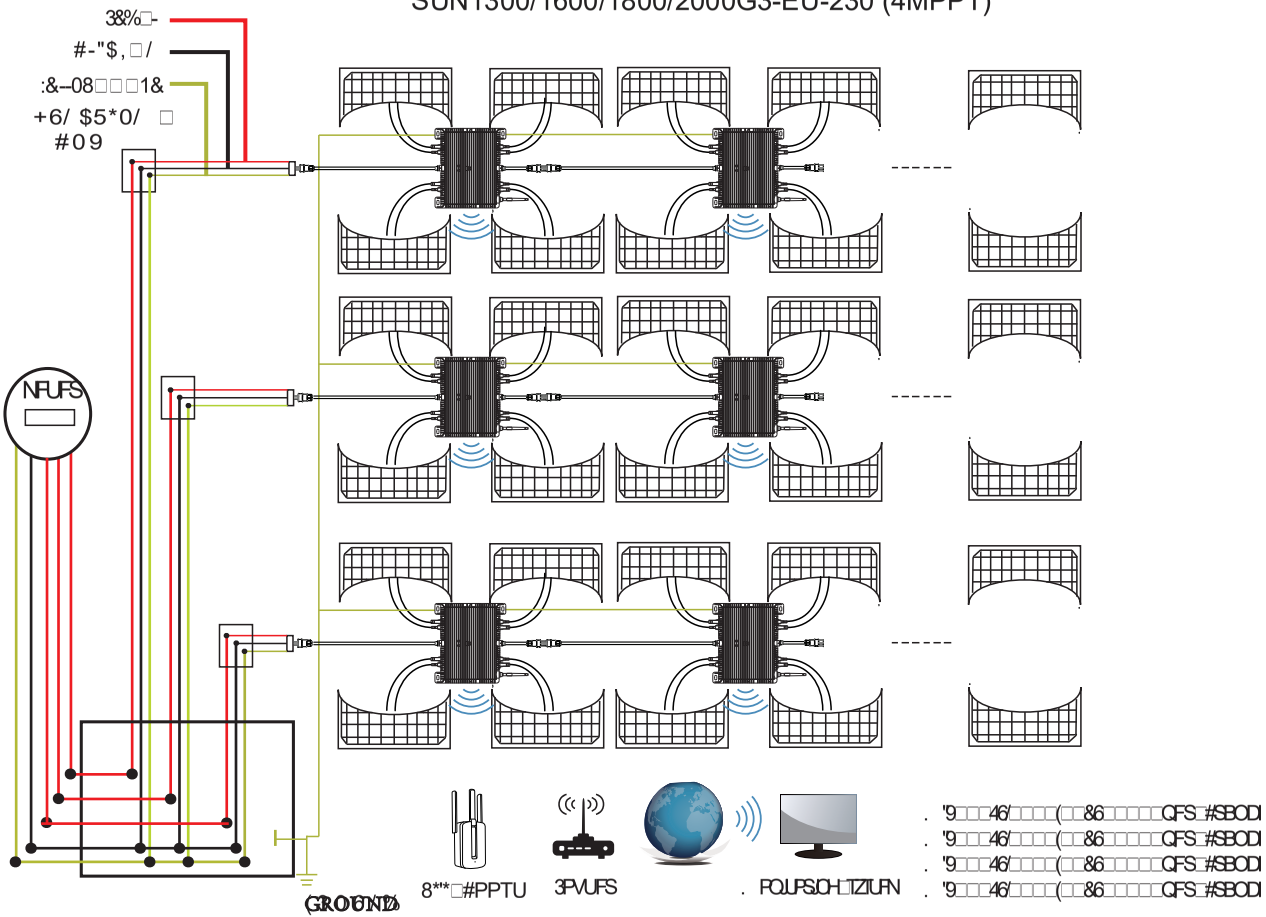


SUN1300/1600/1800/2000G3-EU-230 (4MPPT)



<2 91:8• *•4! 8•*2! ,2 8•0,: : 8 023:

SUN1300/1600/1800/2000G3-EU-230 (4MPPT)

$ ' 4*;' ,*4! 8 12;•',

5JT TFSJFT NJDSPJOWFSUFS BT CJMU JO 8* NPEVMBS XJUI UP DPOFDU SPVUFS

EJSFDUMZ PS 8* DPOGJHVSBUPO
QMBUGPSN DFUUJFT NBOBHFNFOU QG#WMU JO 8* NPEVMBS
NDSPJOWFSUFS 8* DPOGJHVSBUPO BOE Wp

8FC NPOJUPSJOH BEESFTT *https://prosolarmanpv.com* GPS 4PMBSNBO EJTUSJCVUPS BDDPVOU

https://prosolarmanpv.com GPS 4PMBSNBO FOE VTFS BDDPVOU

PS NPCJMF QPDF NPOJUPSJOH TZTUFN
TDPVUF 23 DPEE UP EPXOMPBE UE"1
MIP2PV DBOGJDE JU CZ TBSDJOH oTPMBSNBO CVTJOFTp JO 'QQ TUPSF PS (PHMF 1MBZ TUPSF
BOE UIT QQ JT GPS EJTUSJCVUPS JOTUBMMFS

'JOE JU CZ TBSDJOH oTPMBSNBO TNBSUp JO 'QQ TUPSF PS (PHMF 1MBZ TUPSF BOE DPPTF

oTPMBSNBO TNBSUp
UIT BQQ JT GPS QMBOU PXOFS

SOLARMAN Smart
for end user

SOLARMAN Business
for distributor/installer