

HICONICS

HEC2 SINGLE PHASE RESS USER MANUAL

GENERAL NOTE ON GENDER EQUALITY

+- . CDJI DN@J(@ @MBT MD@ @CI JGJBT J)GO)

[illegible]

CONTENTS

1 Notes on this Manual	+
1.1 N jk jaQ ௫௧	+
1.2 O rb oBrjpk	+
1.3 Nth j௫Pn	+
1.4 ௫ @ g m௫j in ja ji a j r h ௧	+
2 Safety	+
2.1 I j on ji O c h H i p g @ k gi ௫ ji ja Nth j g	+
2.2 ௫ k j r o i o N a ௧ ௫ n o p ௫ j in	+0
2.3 C i g C q t G j n N a ௫	, ,
3 Introduction	-
3.1 nd A ௫ m n	-
3.2 R j r h j n	.
3.3 K f d b G ௫ o	/
3.4 ௫ N t n o h < k k m i	0
3.5 ௫ R ௧ b K j r o K r o	0
3.6 ௫ D q r o n ௫	1
3.7 ௫ H N ji ௫ g j s	3
3.8 ௫ ௫ ௫ r K f	+
3.9 ௫ ௫ n	-
3.10 ௫ LED Lights Display Define	--
3.11 3.6.1 Battery System LED Display Define	--
3.12 ௫ D q r o n ௫ @ ௫ d ௫ j in	-0
4 Installation	-1
4.1 ௫ c f a j n K c t n d g h b	-1
4.2 ௫ @ p ௫ h i o ௫ n o ௫ ௫ j i	-1
4.3 ௫ M l p ௫ h i o	-2
4.4 ௫ M l p ௫ h a j n ௫ n o ௫ ௫ j i	-3
4.5 ௫ ௫ n o ௫ ௫ j i K r j n n	-4
4.6 ௫ ௫ ௫ ௫ r K f ௫ n o ௫ ௫ j i	-4
4.7 ௫ D q r o n ௫ n o ௫ ௫ j i	-
5 Electrical Connection	.
5.1 ௫ ௫ ௫ r N t n o h g j i i ௫ j i	.
5.2 ௫ K Q j i i ௫ j i	/
5.3 ௫ < ௫ k p o J p k p o j i i ௫ j i	.1
5.4 ௫ j h h p i d ௫ j i ௫ o r a j i i ௫ j i	+/
5.5 ௫ ௫ H H @ ௫ O ௫ o r a n	+/
5.6 ௫ M H K j r o j i i ௫ j in J k ௫ j i g	/-
5.7 ௫ J H * G ௫ o r a	/.
5.8 ௫ ௫ K * M * G G @ ௫ D Q ௫ o r a	/.
5.9 ௫ ௫ @ o m g N h r o H o m j k ௫ j i g j i i ௫ j i	/.

0)l @ræ A pϑ<grh jii æji)	/
0Z R ddb dbmh)	0
0B ærk K f k æ @k ingi)	1
6 System Operation)	2
1), Nr æ c Ji)	2
1)- Nr æ c Jæ)	3
7 Plant Monitoring)	3
2), jr ig NJG<MH<I <KK)	3
8 Maintenance and Troubleshooting)	4
3), H æoi i æjm Jk mæji)	4
3)- H æoi i prælb Jk mæji)	0+
9 Fault Information)	0,
4), Ntno h A pϑDæj rh æji)	0,
4)- Dq ræ mæ pϑDæj rh æji)	0-
10 Packaging, Transportation, Storage)	01
<i i s, 5Dq ræ nk mh o nØ g)	02
<i i s-5 ærk K mh o m)	1+

1 Notes on this Manual

1.1 Scope of Validity

Ocdh h ip gdh i dlobmgk mjaC@- n ndnndbg kc n mnd i adg i rbt nqmb
ntno h r d c t nd d q r m d n nd n c nn h g' dno g d j' j h h d n d i d b'
h d o i i i a d m j a c k n j p o) K g n m d m a p d j m j k m a i b)

Configuration	
Inverter	C@ - (N.)13Cm
	C@ - (N.)3Cm
	C@ - (N0)+Cm
	C@ - (N1)+Cm
ESS	C@ - (CK0+m
	C@ - (CK, ++m
	C@ - (CK, 0+m
	C@ - (CK- ++m(<
	C@ - (CK. ++m

Dq nq mī h d b n p g n' a j m s h k g 5C@ -(N0)+Cm
 C@-' p n n a j m C D J I D N - i b i m a d j i n n d n'
 N' p n n a j m N a l b g K c n J p k p d'
 0)+ p n n a j m m o j p k p o k j r m 0 f R)
 C' p n n a j m C d c q j d b '
 m' p n n a j m < d d (j i ')

@Nni h d b pgn'aj m s h kg5C@-(CK0+m
C@-' pn n aj mCD JI DN-ⁱ b i m o d j i n n d n')
' pn n aj m o t n t n o h '
C' pn n aj mC d c q j o b n t n o h '
K0+' pn n aj m0fR c'
m' pn n aj m o d j i n t n o h '

Ji æ kknjsdh òji jaæ gr njææ H h mNo onmgæib qj g øjh bi æ jh k æðt @H

ðn æð -+, /*. 0* @P

Ji æ c rhji æ òji jaæ gr njææ H h mNo onmgæib qj æ h fælb q æ g ji æ h nh oja g æd glpækh io nðbi æjpn r ææd r æd qj æ b g h ðn æ ncj r æ Gj r Qj æ b ðn æð

ðn æð -+, , *10* @P Mj CN

ji æ mnæd òji jaæ pn ja r æd c u mjpn np noi nð g æd gi g øji d

equipment You will find a detailed EU Declaration of Conformity in the download area at: r r r)cdji dn(bg g jh

2 Safety

2.1 Notes on This Manual Explanation of Symbol

Oæhn òji bæ n i skgi òji ja ææ nth j æncj ri ji æ æq r æ mi ji æ æk g g

Symbol	Explanation
--------	-------------



CE mark.
Oæ æq r æ m j h k æ n r ææ ml pænh i ø jaæ k k æ g @



OPQh nh



რ მჯაცონპრა)
 ოც დღე რამ ი ჯი ეო პრბქ მადი) < qjd jio o პრბ
 ჯქ მადი) იბ მჯაცოჰკ მჟმ)



იბ მჯაცოჰკ მჟმ)



იბ მ
 მჟმჯაგ ოდნეჟ



ჯნრ იგნ ჯფიოჯი



ჯიჯო ჰქნჯაო ორნთნოჰ ობ ომ ოცაა ცქნცგ
 რნო პოდ ჯმი რ ოცაა ჰქნჯმბპგაქინაქმგ ონიდ
 რნო კკდ გოც დნო ოჯინო)



ოცნთნოჰ ი"ო ჰქნჯ ობ ომ ოცაა ცქნცგ რნო)
 ჰქნჯგაქრ ოჯი ი აქი ოც იგნ ჯფიოჯი)



ჯიჯოქ მო ოც ჰქნჯი ოპი ოცაა ოჯი ონი ორნბრ
 იჯი (ნო KQb იმჯი)

ib nōj q p o j cōc qj q b)



Oc mōmndp gqj q b sōd b d c d q rō m a o n k j r n d b j a d
r c d c i n 0 h d q d c r b)
R d 0 h d p o n a j m j k i d b c j q n

2.2 Important Safety Instructions

ib m

ib nōj q p o j cōc qj q b d c d q rō m a o n k j r n d b j a d
be carried out by qualified electrician



Danger!

Oc k k q d i n c j p g i j o p n t c d m i j m d d p q
r c d q d k c t n d g n i n j m j m i o g d d n'
j m g f j a s k n d i i f i j r g b '
p i g n n c t c q m d n p k r d d i j m d n o p a d i)



Caution

p d i

K j n n d g h b o j c q c n m n p q j a c m d a d i
j i j o n o t g n n c i - + h o j d q rō m a j m i t g i b c j a o d h)

l j a d

B n j p i d b c K Q b i m o j n



Notice

N c j p g j h k q r c d g g m l p a n h i o a j n b n j p i d b c K Q
h j p g n i K Q b i m o j n d d m j h h i c o c K Q
a n h i j a c m g a d q j i p a d n p r a n j i i o
d h i i n c o k n j q d n j i a d p j p n j i p a d i i b n j p i (d b a j n j k a d h p h n t n o h i k m j i i g k n j o a d i)

R mǎb



Warning!

Ensure that input DC voltage $\leq$ Max. DC voltage. Over voltage
h t p n k r h i o h b o j d q r a m j m j a c m g n n n'
r c d c r d j j o d d g d r m i d t



Warning!

R mǎb

M h f j a g a n d n c j f



Warning!

R mǎb

< p a c j n d n r a d k m j i i g h p n o d j i i o j a c < i
k j r n a n j h d q r a m a j m a h k a d b i t h d l o i i
j m g i d b j m j n d b j i i t d h p d n j i i o o j d q r a n h



Warning!

R mǎb

j i j o j k m o a c d q r a n n c i a c q d d h p i i d b)

K r d m o j a c k k g d a j i ' k g n m a a d n a j i m a p d d o j i n p m
j m o i n a k k g d a j i) K g n f k a c p n n h i p g k r j k n g)

< n n j r d n j i g o j b a c n n d a c d q r a n m c d k h i o m m j h h i
here, otherwise may result in a risk of fire, electric shock, or injury to
k m j i)

@ n p m a c a c r d a b d d b j j j i d j i i d i j o n h g n a c i a c
m l p d n d l)

Rei nndbae dlo m g dhpdbadq m rhdh q rth kjro i o j
r d0 h d p o n a j m j k m d b a e k j r m d h p d j i j o j k i a e
q d m c i)

H n p m a e q j g b a i o r h d g u & i (r d e
h p d h o m d k i o g n o , H j c h o j i n p m a e o a e q d d
d c r b a j m b d i d b r j r h . O Q d n d a e q d)

O n d b o j < N * I U N / 222) - 5 + - + o j h p d k g d q r o m j h d o j i n
c n i j o i j i p o N j h p d k g k c n d q r o m j h d o j i n
n c j p g i j o p n j m s o m g q d n n c j p g p n d j m i
r d e a e m l p d h i o j a < N * I U N / 222) ,)

Anti-Islanding Effect

D g i d b a e o d n k d g k c i j h i j i a e o b r d (j i i o K Q
n t n o h n o d n p k k g k j r m o j a e i m t b r d r c i a e q j g b g n n d
c k k i d a e b r d n t n o h) D d h i b n j p n a j n h d o i i k m j i (i
g i a e k p d) C d d r t n r d n d q r o n k n j q d < a d A m l p i t
n d o < A o j k m q i o d g i d b a e o)

PE Connection and Leakage Current

O c i (p n k k g d o j i n c g h j i d j n e e k n j o a d j i p o j m t
m n d p g p m i o j k m o k n j o a d q d M r d e m o a p d
p m i o $I_{\Delta} \leq 240 \text{mA}$ which automatically disconnects the device in case
j a a p d)

O c q d d d o i o j j i i o j K Q n d b r d e k d i
g h d j a j p o 2 + i a)



Warning!

R m d b

C d e g f b p m i o

B n j p i a e n t n o h a j m k j r n j i)

1. j m o b r i p i d b i p n k c t n d g d e p r t i ' a j m l p d k h i o
 h a p i a j i i g a j h b i a d m d a j i d m n)

H f n p m a o b r i p i d b j i p o j m t l p o g n d n
 m l p d h t n a d m b p g a j i n)

j i j o j i i o a c b r i p i o r h d g j a c p i d d n n d n d n j a
 h p d k g d n o g a j i) O c t k r i p o i p n p m i o r d c
 j h k j i i d r c m m n d p g p m i o q d M j n h j i d j n d b
 M H t p n a j n k r i o a j i)

D n j a t h o j m t t h o j i o d j i g i M j n M H j a d k
 t g r j i a c n p k k g n d j a c t k r i p o)

For United Kingdom

O c d n o g a j i a o j i i t a c l p d k h i o o j a c n p k k g
 o r h d g n c g j h k g r d c a c m l p d h i a j a N 212,)
 l j k r i o a j i n a d b n i g m)

P n m n c g i n p m a o l p d k h i o t n j d n o g ' n d i i
 j k m o a j h d o d o g a t n j h k g i r d c a c m l p d h i a
 j a @ N L M - ,)

For Australia and New Zealand

a a d g d n o g a j i i h d o i i n c g j i p o t
 g i n g a d d i i n c g j h k g r d c < p n a m g l a j i g r d b
 M p g n)

Battery Safety Instructions

C o r b t N n d n d q n a m i j k m o r d c d c q j g b a r h
 system, for the specific parameters such as battery type, nominal
 q j g b i i j h d g k t o) k g n m a m o j a c k m h o m
 g h o)

O j k m q i o k j o i a d g g a d n c j f i n c j n t h n p d p m i o
 c u m n a c o h t n a j h p h p g o j m a n d n ' t t h q t a j
 a j g r a c a j g r d b k m p a j i n r c t a c a r h m k g h i d

- ,) j i j o r m o c n' n d b n j m d h g n h o g d h n)
-) P n d n p g o o j j n)
- .) K p o j i r p m c j n i b g q n)
- /) j i j o k g h o g d o j j n i n d h g n h o g d k m j i a c c o n d n)
- 0) N r d e c j a g j i i o o j a c c o n d n a j m d h i o g b o r n j i i a j i o r h d g n)
- 1) J i g k m j i g d e k n k m s k r a h i m h j p o a c h d o i i j a p h p g o j m c o n d n)

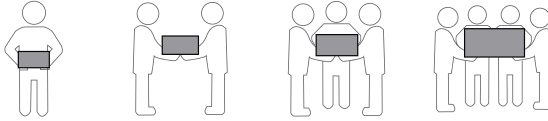


Notice

O c n t n o h o o n a c r h g r p i r t Q i a d b j a b n j p n g o j j o 6 p r i d b j a c c g n k n h a j r h a j i i d i d j i j a q i o b n h d e p m n 6 @ k g n d i j a c c g ' d r d n g n n g n i n a c r h g r p i r t n d i g o j a c p n r n g r h n t n o h o j d a j r h a c p n n e o a c r h g r p i r t h a s o c c u r r e d . U s e r s n e e d t o c o n f i g u r e b u z z e r a l a r m k n j p o n o c j h) O c g r h g d c o d m ' i a c g r h p u u m e n n j p i g q g m o n e i 30 p o g n n a c i , , + ' r d e a m l p i t g r .) f C u)

2.3 Handle Heavy Loads Safely

Read the instructions carefully before using the equipment. Do not attempt to lift or move heavy loads without proper training and technique.



Read the instructions carefully before using the equipment. Do not attempt to lift or move heavy loads without proper training and technique. Always use proper lifting technique to avoid injury.

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When carrying the equipment by hand, first approach the object, then lift it. Do not attempt to lift or move heavy loads without proper training and technique. Always use proper lifting technique to avoid injury.

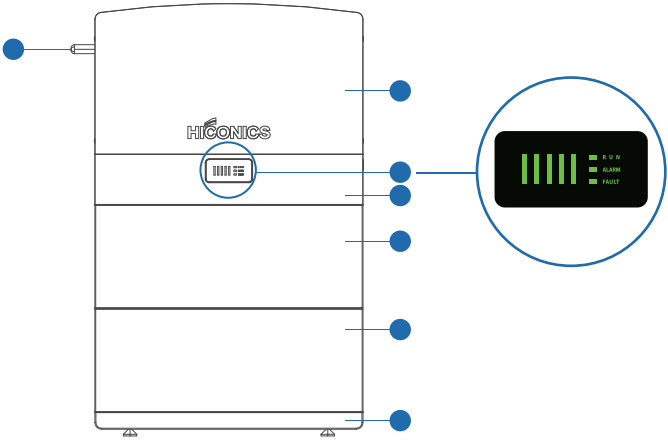
Read the instructions carefully before using the equipment. Do not attempt to lift or move heavy loads without proper training and technique. Always use proper lifting technique to avoid injury.

Read the instructions carefully before using the equipment. Do not attempt to lift or move heavy loads without proper training and technique. Always use proper lifting technique to avoid injury.

-s_KQ k j n d d
o r h d g

-s_KQ i b d
o r h d g

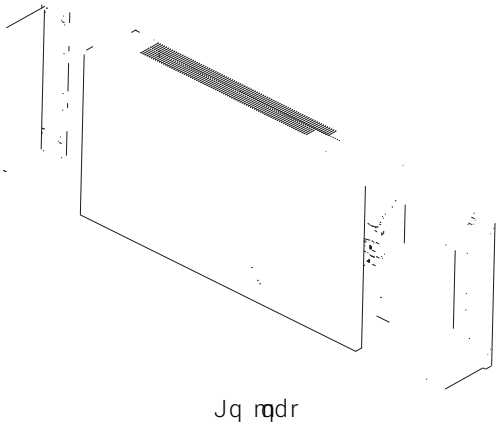
3.4 System Appearance



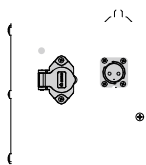
HEC2-S Series

- Control Panel
- H2O Alarm
- H2O Level Sensor
- Water Filter
- Water Filter (Reverse Osmosis) Filter
- Filter
- Reverse Osmosis

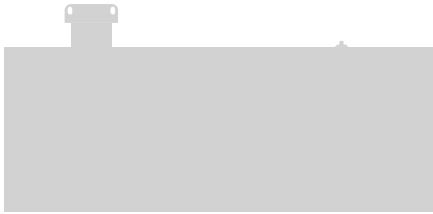
3.5 Wiring Port Part

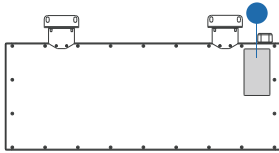






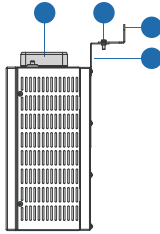
3.5.3 Battery Pack





Back view

- G gK no Kj no di



Battery right view

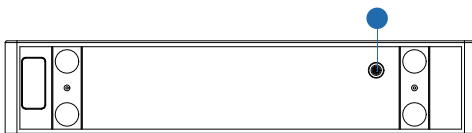
- j o a j h j i i o j m
- j i i a l b N m r
- H j p i a l b K d -
- H j p i a l b K d ,

Oc ærk fjamnd iædgi rbt nojmb ntnoh æ qd pn ojnojm g and g
i rbt'pnp æ jindæibjah pærk ærh æ)Onh ælæpi æjind æ 5
Nojnb g and gi rbtæc ærk f i nojm g and gi rbt ærh æ brd jnæc
KQKjr mmpkæg5

Oc æ n k f i o j n p k k g g o n d g k j r m r c i q n o c m n i o j n p k k j r o
æ f p k g h i b t K N

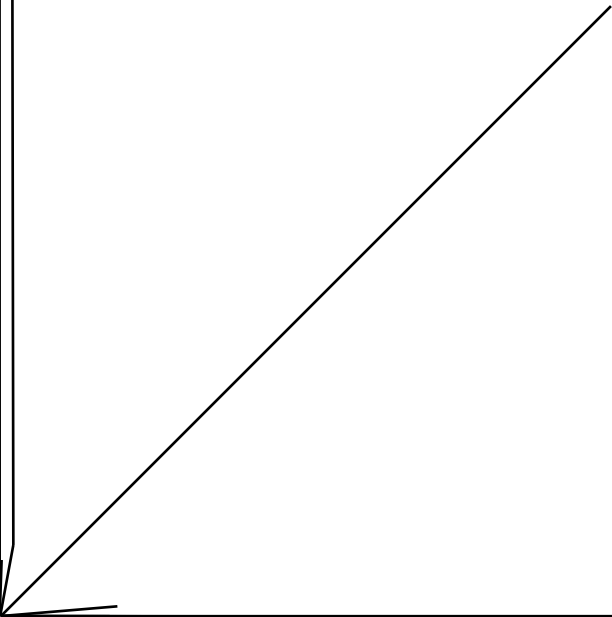
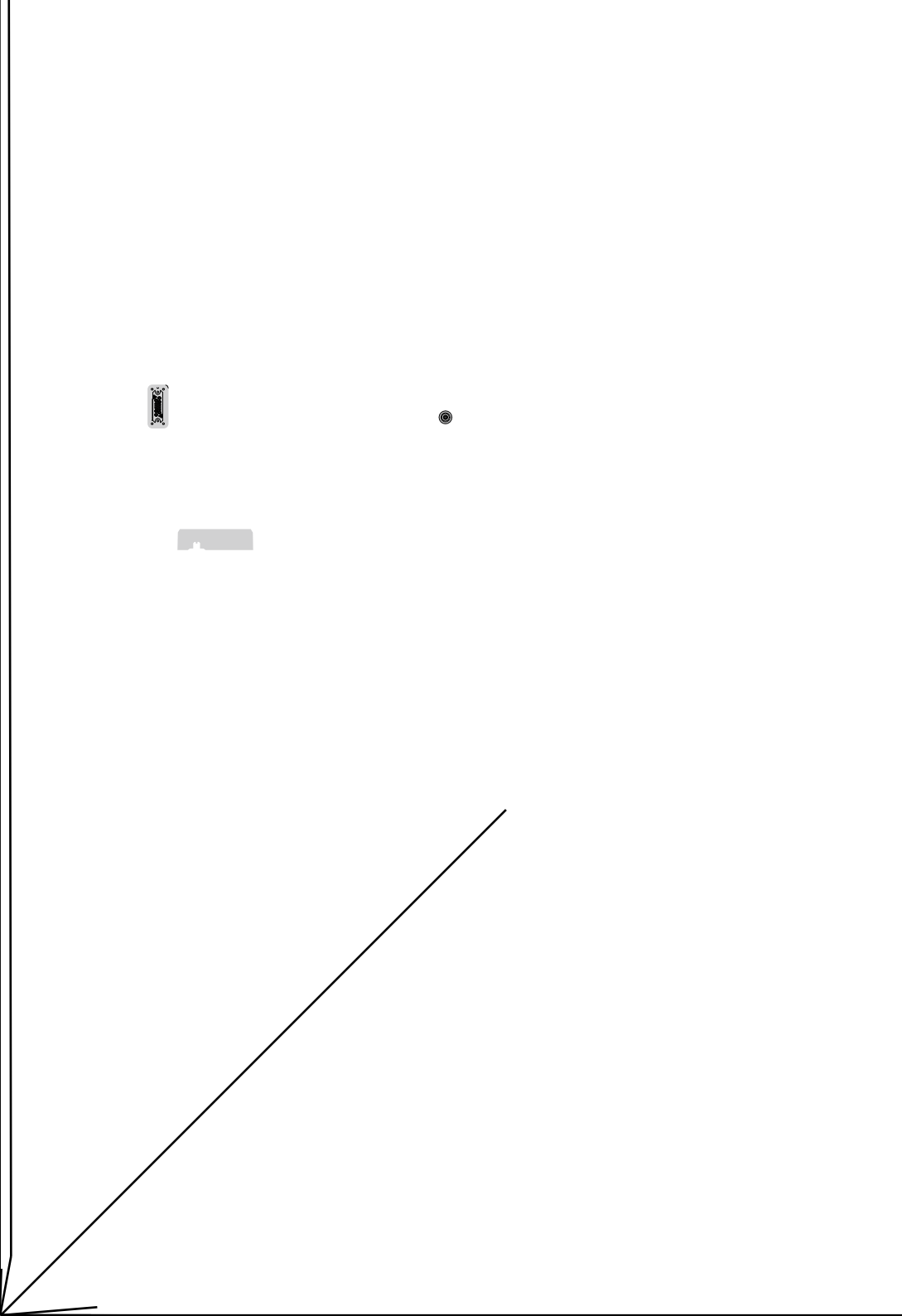
Hji dɔ̃ ml b50c æmk f i hji dɔ̃ nœ no qn jæc ærh ɔ̃ n'np c nqj ɔ̃ b
jæc rɔ̃ i ɔ̃ c rɔ̃ 'ohk mɔ̃ m' o) ɔ̃ j inpmæc ɔ̃ m ad i mɔ̃ d ɔ̃ t)
Oc æmk f pnp ɔ̃ i ɔ̃ j pn d̃ j i ɔ̃ p i ɔ̃ j i r ɔ̃ c j æc ml p k h i d̃ np c n
d̃ q r o m i HN j i ɔ̃ n g j s' ɔ̃ j c d̃ q ɔ̃ n a p p i ɔ̃ j i)

3.5.4 Base



Base bottom view

- Kjndgi o qmh g



O g, G@ api oji ðkgt

State	Description	RUN 	ALARM 	FAULT 	Battery SOC indicator 					Description
Ntno h kjr m jaa	Kjr njaa	jaa	jaa	jaa	jaa	jaa	jaa	jaa	jaa	jaa
Ntno h no i t	I jrh g	ඉෆඩ්බ,	jaa	jaa	n j i m gNJ kjr m d aji					No i t h j
	R m d b	ඉෆඩ්බ,	ඉෆඩ්බ-	jaa						ඔරුකු fgr qj d b *gr NJ * gr ohk mpm
	A p d	ඉෆඩ්බ,	jaa	ඉෆඩ්බ.						j h h p i d aji * l p d h i o h b
c r d d b h j	I jrh g	Ji	jaa	jaa	n j i m gNJ kjr m d aji					
	R m d b	Ji	ඉෆඩ්බ-	jaa	<ඉරු G@ ඉෆඩ්බ-					R c i a c ඔරුපු c r b ' ඉරු NJ G@ ඉෆඩ්බ-GR c i j q m c r b r m d b' <grh G@ ඉෆඩ්බ-)
	J q m c r b k r n j o a j i	Ji	jaa	jaa	Ji	Ji	Ji	Ji	Ji	<ඔරු ඔෆඩ්බ j q m c r b k r n j o a j i a j m k r d j a o t h ' ඔ a c m d i j c r d d b p r m i o d k p d a i t h a m i n d i j n o i t h j)
	J q m p r m i o k r n j o a j i	Jaa	ඉෆඩ්බ,	ඉෆඩ්බ,	Jaa Jaa Jaa Jaa Jaa					Noj k c r d d b
	Q j d b d a m i k r n j o a j i	Jaa	ඉෆඩ්බ,	ඉෆඩ්බ,						ඔරු qj d b d a m i j a a c ඔරු s n a c ඉරු g q d ' n o r a c k r n j o a j i i n o j k c r d d b
	j h h p i d a j i a p d	Jaa	ඉෆඩ්බ,	ඉෆඩ්බ.						H N ඔරු m g i K N j h h p i d a j i a d m ' n o r k r n j o a j i ' n o j k c r d d b
	O h k m(o p m a p d	Jaa	ඉෆඩ්බ-	ඉෆඩ්බ-	ඔරු I O o h k m p m d a m i * n d s n a c ඉරු g q d ' n o r k r n j o a j i i n o j k c r d d b					
I jrh g	Ji	Jaa	Jaa	n j i m gNJ kjr m d aji					ඔ c r d d b i j r h ඉ	

Gjr NJ
r mðb

Ji

ඉෆðb-

Jaa

ඳාආ ආර්ග්ග්ග්
gr nœ i œ n œNJ
q ඉ ' i grh r ඉ
ආබ්බ් m' i œ
h ð ð ph ආර්ග්ග් g
G@ r ඉ nœ œj nœk
ආ c රððb

ආ c ර්
bðb
h j

ඳාආ qj ඉ b ආ mi
jaœ ආර් ඉ
s nœ ඉර් g
q ඉ 'no nœœ
kriœ œji i nœk
ආ c රððb

HNðœm gi K N
jh h pi d œji a œm'
no rokriœ œji 'nœk
ආ c රððb

ඳාආ I O œ h k mœm
œ mi *nœ s n
œ ඉර් g q ඉ '
no rokriœ œji i
nœk ආ c රððb

A pœ

Nœk c රððb i
ආ c රððb

O g - ධනර්ප් ආජිනාඞ්ආ Jk මාදි jaœ Kjr nG@

ඉෆðb-

Jaa

Jaa

Jaa

ඉෆðb-

Ji

Ji

Ji

Ji

Ji t ji ඉcopk

Jaa

Jaa

Jaa

Ji

ඉෆðb-

Jaa

Jaa

Jaa

Ji t ji ඉcopk

Jaa

Jaa

Ji

Ji

ඉෆðb-

Jaa

Jaa

Ji t ji ඉcopk

Jaa

Ji

Ji

Ji

ඉෆðb-

Jaa

Ji t ji ඉcopk

Ji

Ji

Ji

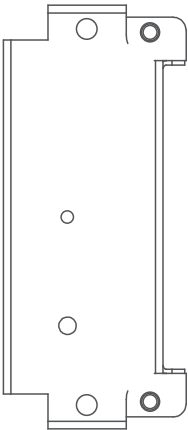
Ji

ඉෆðb-

0 g . @skgi  ji jaG@ r jnf b  d ojn gn b

Type	On	Off
Blinking1	+)-0n	. n
Blinking2	+�0n	-n
Blinking3	+�20n	, n

3.6.2 Inverter LED Indications



Name of LED	State of LED	Description
NJG	JI	KQ �� ���
	GD FD B	KQ ��no i t
	JAA	KQ g nn
<O	JI	���� ���
	GD FD B	����no i t
	JAA	��� g nn
BMD	JI	Brd �� ���
	GD FD B	Brd ��no i t
	JAA	Brd g nn
@KN	JI	@KN �� ���
	GD FD B	@KN ��j q ng
	JAA	@KN g nn
@�M	JI	A p�no o
	GD FD B	R m�b
	JAA	I j a p�

4. Installation



Notice

Don't touch the power cord.

4.1 Check for Physical Damage

Before use, please check the power cord for any physical damage. If there is any damage, please do not use it.

4.2 Equipment Installation

Before use, please check the power cord for any physical damage.

Check the power cord for any physical damage. If there is any damage, please do not use it.

1. Check the power cord for any physical damage.

2. Check the power cord for any physical damage.

3. Check the power cord for any physical damage.

4. Check the power cord for any physical damage.

5. Check the power cord for any physical damage.

6. Check the power cord for any physical damage.

7. Check the power cord for any physical damage.

8. Check the power cord for any physical damage.

9. Check the power cord for any physical damage.

10. Check the power cord for any physical damage.

11. Check the power cord for any physical damage.

12. Check the power cord for any physical damage.

13. Check the power cord for any physical damage.

14. Check the power cord for any physical damage.

15. Check the power cord for any physical damage.



I j ðn onpi 𐌿𐌶𐌰



I j mð skj npm



I j ni jr ph pgð i

4.2.1 Requirements

Position	
G æ	1++h h
Mðco	1++h h
O j k	0++h h
Arji o	1++h h

4.2.2 Required for Installation

Dono gogji oj jg 5 n k b k g m a j m d d b k j n o i ME/O' n m r n d r h i p g r m i c o)

Installation tools



D k o n d (Φ10mm drill)	Oj r h p N j f o R m i c	H n n K i	Q p p h g i m
Oj r h p R m i c	Oj r h p N m r n d m	No g O k	G q g M p g m
@ s d o c r d c H l n j f o	H p g d h o m	M p n H g o	R d n N o n k k m
R d n p o o a i b K g l m	n d k b k g l m a j n K Q o r h d g	< r o F i d	ME/O n d k b k g l m
n d k b k g l m a j n o r h d g	g O d n	C j o < d n B p i	C o n c r d f O p
< i d d o g i f o	K Q K g b P i g f d b O j j g		



Step 5: Dno g sk i n d i j n d l æ n d g c j g n) P n æ s k i n d i j ø r æ d n j r i



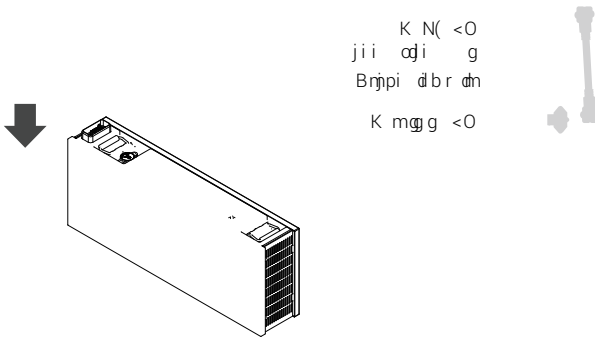


Step 2: Place the inverter on the BMS main box, fix the inverter on the mounting bracket, adjust the whole system, and ensure that the battery and inverter are firmly hung.

5 Electrical Connection

2.1 Battery System Cable Connection

c C@-(CKntno h r dcpodq ro mth ggnndno gudi
 m(dno g d m g jii adi)Oc h j pgmno f dno gudi
 jhkgonae n rdn jii adi o i a r h j pgn)Oc
 he confirm from R&D about the BMS box model number system
 i a d q ro mml pahn g jii adi pnd b K N(<O j
 jr m jii adi' j h h p d adi i brjpi db)<g'ae mn
 jii adi o i H N h d j s i d q ro n



2 battery modules in series

5.2 PV Connection



- ajm jii <0 b o j KQ h j pgn' kg n dno < n k mo g < n p d m f m < i d q r a m i KQ h j pgn)
- It is very important for system safety and efficient operation to use appro(knd o g ajn KQ h j pg jii <0) Oj m p n d f j a d e p r t' kg n p n < k n j k m m j h h i g n d n g r)

Wire Size	Cable(mm ²)
, - < R B	/



- Oj qjd ith < p i <0 j i j o j i i o i t KQ h j pgn r < k j n d g p m i o g f b o j < d q r a m) A j m s h k g' b r j p i KQ h j pgn r < g

- [illegible]

Connection Steps:

Step 1: c f d b K Q h j p g)

-), Pn qjgh o n o j h n p m h j p g m t q j g b)
), c f æ KQ& i KQ(a n j h æ KQ n a n i b j h d m j s j m a g)
), Kg n h f n p m æ d h k i σ i æ k j n o d k j g i i b a d
 pole of PV to earth should be MQ level.

Step 2: N k mæi b æ j i i g n



Step 3: R and b

- .) cjjn æ / h h r d n q j i i o r æ æ j g (k m n n o r h d d)
 .) M h j q , + h h j a d n p g d i a n h æ i j a r d n)
 .) D n r æ æ d n p g d i d o j k d j i o o i p n n d k d b k d m j g h k d)

Step 4: Dn rokdl jio oonjpbcc gipooj nn h g dloj fjaac h gjm ah g kpb)Rciitjpa gjm m gdf'npjic kdl jio onn h g dhn o jrm ojj)



Step 5: Kpbaac KQ jii ojmlojcc jmnkji dlb KQ jii ojmji dlq romh

5.3 AC Input/Output Connection

ajm jii albaac brd jii oji'kg n dnojj nk mo < dnpom f m a i dlq romi < dlkpojrmjpm)Ochr ojjinpmcc dlq romi n pmg d jii o pmbh doi i i apg knjo o ajh jq mpmioja< dlkpo)Ocm jhh i mabja< dnpom f m h.-<)

Table Cable and Micro-breaker recommended



Warning!

Ocm d G l ""K@Nth jgh n dnd cc jii ojr cc Gdl r d h jabrd h pno jii o o j G o r h d cc l pomgr d h jabrd h pno jii o o j l o r h d cc @rcc jabrd h pno jii o o j ""K@

Required for installation.

Don't forget to read the instructions carefully before installation.

Installation tools



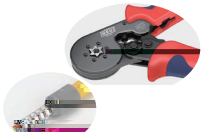
Adjustable wrench



Wire cutters



Screwdriver



Terminal block

a: Please read the instructions carefully before installation.



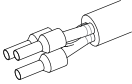
Item	Outer diameter of wire	Wire length
	Outer diameter of wire	Ø Ø
	Bare wire length	
	Wire length	

—: CAUTION: NOT FOR INTERRUPTING CURRENT" and "ATTENTION: NE PAS UTILISER POUR COUPER LE COURANT"

—: "Not for Current Interrupting"

b: Don't forget to read the instructions carefully before installation.

The instructions are in the user manual. Please read them carefully before installation.



நீக்க ஒத்திசைவு நீக்கப்படும்)



நீக்க கருவி அல்லது பிளாஸ்டிக் கருவி

நீக்க கருவி அல்லது பிளாஸ்டிக் கருவி
torque 1.2+/-0.1N·m (2.5~6mm²) 1.0+/-0.1N·m ($\leq$ 2.0mm²)
1.5mm² இல்லை என்றால் பிளாஸ்டிக் கருவி K@g கருவி
பிளாஸ்டிக் கருவி

பிளாஸ்டிக் கருவி அல்லது பிளாஸ்டிக் கருவி

பிளாஸ்டிக் கருவி அல்லது பிளாஸ்டிக் கருவி

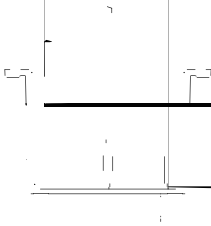
பிளாஸ்டிக் கருவி அல்லது பிளாஸ்டிக் கருவி

Male and female butt (plate end)

பிளாஸ்டிக் கருவி அல்லது பிளாஸ்டிக் கருவி

பிளாஸ்டிக் கருவி அல்லது பிளாஸ்டிக் கருவி

Plate end to unlock instructions



Kg æ pi g fðbojjgj i o æ
j m n k j i ð b k r h p o



Km n n æ p æ j i j i æ pi g fðbojj g æ
your finger or a flathead screwdriver



Kp æ æ k r h p o j p æ m n o j
j h k g o æ n k æ æ

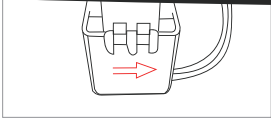
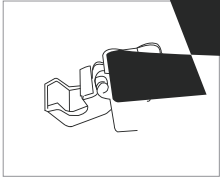
Note: O c æ n n h æ b i n n h æ b h æ j n i k r h p m j k m æ j i æ j m
æ h g k æ æ (ð æ æ n h n æ o æ j m æ a h g k æ æ (ð)

-)M h j q

g j m m

.)Jk i æ O

O k j d æ g r m



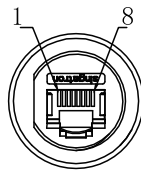
/) j i i æ N, i N- g n j æ æ O g j æ M E / 0 k o r h i j i i æ r æ n n
n c j r i æ æ d b m h)

0) K o b j æ i n j æ æ M E / 0 g æ j æ æ M E / 0 k o m i æ K N æ l o r æ)

Oncjpg kg i noc kjr mnd)A hh onono
k nn podq no mndy i'o cdq skjmkjr mkjr mth
ijo jionjg gjm g tn+kjr mjpkpo)Kg n c f
dno gadi g adjaac O)

Och dora th n jio o j i g a n p n o m g l) M @ h i n h i m n k j i n i g q d) O c < N * I U N / 2 2 2 > - 5 + - + m l p a n d q r a m n o j n p k k j r a h i m n k j i n h j M H) O c a p i a j i t h a j m d q r a m a c o j h k g r d c < N * I U N / 2 2 2 > - 5 + - + n o i m) D q r a m a h a p g g j h k g r d c g g M H) O c j m n k j i d b a p i a j i n m i g t M @ l p k h i o i c j n o j h k p o n A j m o t h ' m a m o j < N / 2 2 2 > < M E / 0 o r h d g a p n a j m M H j i i a j i

Pin	Description	Pin	Description
,	MH, *0	0	MCA
-	MH - *1	1	JH
.	MH. *2	2	Q
/	MH / *3	3	BI



Interface Description

@H<I M@NKJI N@HJ @N MHn

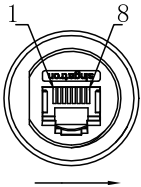
Mode	Pin	Description
MH +	Jk mo æ ɸ jii ɔji qd	
MH ,	j i j o j i n p h k j r m	
MH -	j i j o j i n p h o h j m æ i 0+ j a m o k j r m	
MH .	j i j o j i n p h o h j m æ i 20 j a m o k j r n̩l Nj p m m ɔɬ k j r m̩ k g	
MH /	ɖ m n k j r m j i n p h k ɔ j i n p e o ɔ j j i n a m̩ d̩ a n j h j a c m ɔɬ M H n	
MH 0	j i j o b i m o k j r m	
MH 1	j i j o b i m o o h j m æ i 0+ j a m o k j r m	
MH 2	j i j o b i m o o h j m æ i 20 j a m o k j r n̩l n̩ d f m ɔɬ k j r m̩ k g	
MH 3	ɖ m n k j r n̩ b i m ɔ j i n p e o ɔ j j i n a m̩ d̩ a n j h j a c m ɔɬ M H n	

5.4.3 COM/LCD Interface

Och dora th njio o) JH kjropn nMN/30 jhhpid oji'ac jhhpid (ojiknoj jgaac nh nR DAKjra/30knj jgn ajmgiokjr nrdnc pgi b hji ojn b)

Pin	Description	Pin	Description
,	J-<	0	BI
-	J-	1	/30
.	/30<	2	J,<
/	Q	3	J,

*Refer to 5.4 for wiring sequence.



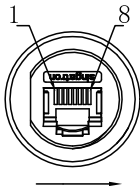
Interface Description

5.4.4 PARALLEL(INV) Interface

Och dora thpn oj thkgh ioac dqr mdk mggapi oji)Oc jhhpid oji o i k mggdqr mth <I)

Pin	Description	Pin	Description
,	<I C	0	H <I G
-	I	1	<I G
.	I	2	I
/	H <I C	3	I

*Refer to 5.4 for wiring sequence.



Interface Description

5.5 External Smart Meter (optional) Connection

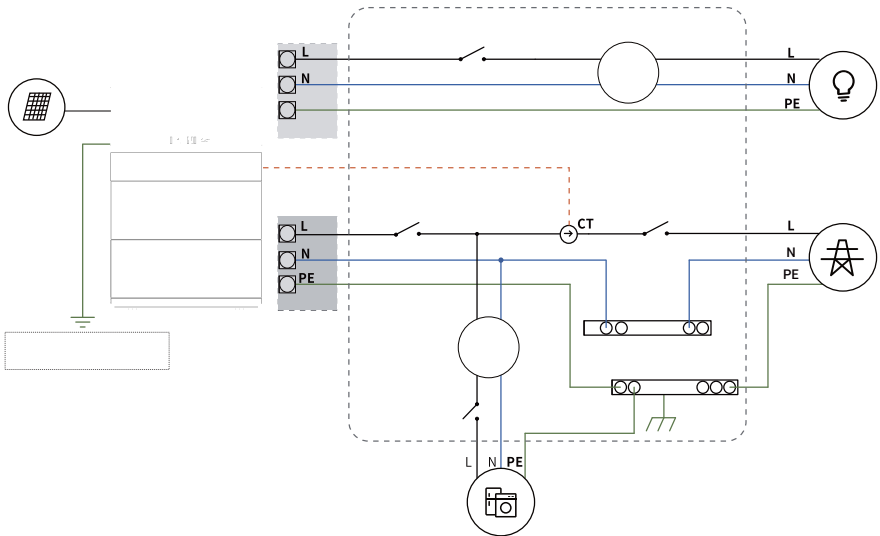
Tjphpno jii o som g Onjm nh rabrd h om o i ac dqr ami ac kjr nrd)Datjpr ioj jii o nh rah ornjoac oji gji h om i nn rh ajm c dqr n)Oc h onhpno hjpio i jii o oac brd amindji kjdo a (dkjdonj o o i h npm ac brd mami i a (dkj r n)



5.7 Wiring Diagram

C@ Ct rd N rd n th n d i r d c s j @KNq m d i n a j m p n o j h n o j c j j n n j i
 c g g p p g n)

@Q m d i k k g l n o j c r d i l b r p g n c o m l p a t n n c G d q u i l l p o m g u l j a
 @KNh p n o t h j i i o r d c c G d q u i l l p o m g u l j a b r d k k g l n o j
 h j n o j a c j p i s d n)



Aj n p n a m g l ' l r U g i) O c i p a m g k j d a n j i c B M D n d i c G J < n d h p n o
 j i i o q j b c t h j a c m t h c G J < a p i a j i j n i j o r j n i)

PE grounding:

,) O c K @ o r t h d g j a G J < t h q i o i i i j o j i i o q j c b r d n t n o h j a
 < p n a m g l ' l r U g i i N j p a c < a r d)

-) O c m m s j K @ r a d b k j n o j i c K N n c t j i t h j i i o q j c n c t j r a c
 d b k j n o j a c H N j i a n g j s o j h d o d r a d b j i a l p a t s i d a m i o n a p
 (p m g k r a n ' i c j a c n K @ r a d b k j n o i n o j m g l g j i i o q j c p d d b
 r a d b n d b i s j n i m t)

ac

HN j i t h g j s &

HN j i t h g j s &

HN j i t h g j s &

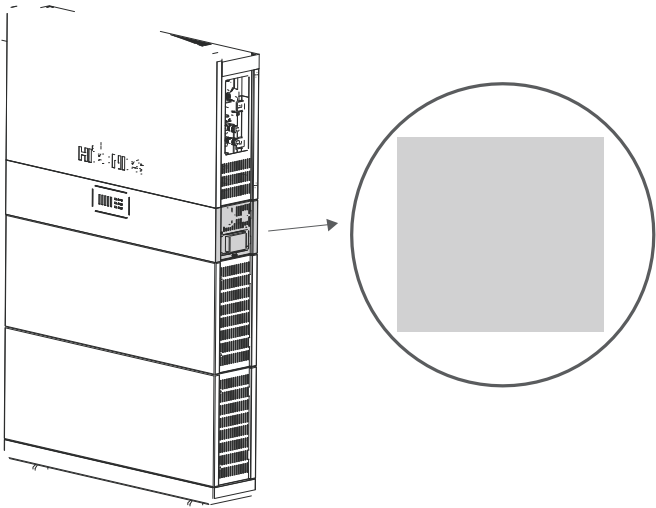
HN j i t h g j s &

6 System Operation

6.1 Switch On

Read the instructions carefully before operating the device to avoid damage to the device or injury to the user.

WARNING: Do not touch the internal components of the device.



Power-on process:

- Step 1:** Check the power supply and ensure the power switch is turned on.
- Step 2:** Wait for the system to boot up and the display to show the operating system.
- Step 3:** Press the power button to turn off the system.
- Step 4:** Press the power button to turn on the system.

6.2 Switch Off

Step 1: Opm jæcc brd(nd ðnpð m f m

Step 2: Opm jæcc KQ ð jii onr ð c

Step 3: Jk i æ knjo ð j q mi ðpm jæcc HN jiong js ðnpð m f m

7 Plant Monitoring

Jri m i m o æ ðjri kgio oNJG<MH<I Kgæjrh o jpi m ððh hjiðjndb) Ntnoh r ð j g o æ o a jh nnj do qd n'r cdc i gn æppi moi ðb jaKQ kgiorpi i ðb no qn)

ðardpoj m i ðno g m i m o kgior cð ðno æbæ ntnoh i i pæjnd æ i pn nmjæ t i c f i hjiðj n æ ðjri kgio)H ir cð'æ ðardpoj m i j æ J! Hmhjo g ajmi æ ð i knj(ð n r qd g r h o j r mnæ i pn m inpnðb pnojh nm æa æji)

7.1 Download SOLARMAN APP

NJG<MH<I R ðmhjo hjiðjndb i jiong b kgæjrh ajm gæ pn m)Oc m m gæ d i æðn q ð g) ækn5*rr r)hjgrh i kq)jh*

SOLARMAN Business APP:

NJG<MH<I pnd nn <KK5 NJG<M(H<I pnd nn ðmhjo hjiðjndb i jiong b kgæjrh ajm æ ðard(po m' g m i ðno g m) ajmæ ðno g æi'kg n jio o r æ CDJI DN o j b o i pæjnd jpi o)



SOLARMAN Business APP

SOLARMAN Smart APP:

NJG<MH<I Nh rāmh jo h jī dī rī
dī b i jī tī gī b k g cī rī a j n c i
p n m) O c dī n o g m i c d c c i
p n m o j m o c Nh rā j p i t dī
NJG<MH<I p n dī n n)

Note:

Note: For detailed configuration procedures, please log in
<https://www.hiconics.com/en/product/product-detail/prod-detail?productId=100448>
for the latest "HICONICS Generation 2 (Hienergy) SOLARMAN Configuration Guide".

8 Maintenance and Troubleshooting

8.1 Maintenance Before Operation

,) a j m c dī q rā m k p o dī j k m a g i ' m c dī n o p a j i h i p g m a p g ' i
n o n d a g s p o c j i i a j i i dī n o g a j i j a c l p d k h i o j m dī b o j c
dī n o p a j i n j i c h i p g

8.2 Maintenance During Operation

,)Dæ knji nñjadq romjhhðngidb'mbpgng c frc æ næc ðq romr ððbn are firm, and check whether the dust net, fan, power module, terminals and other parts are r jñðbijrh)

-)Oc ðq rom ð oc nððcmnnp'mnp ð ncjpg k t æiðji o j c frc æ m æ ð o j jñðg f j m j o)

.)Rci æ ñjh ohk mpm s n. +°C' æ æ j j ð ð b h n p m n n c j p g o f i o j k m q i o æ ð q r o n a j h j q r o æ b i p m ð b)

/)Oc npp qm i g s d g j i i ð i j a æ ð q r o m n c j p g f k o ð o ð i æ m n c j p g i j j m j n d i ' p h p g ð i j a p n d o)Oc ð q r o m n c j p g i j o c q g r b q d m a j i i i j r h g i j ð p n ð b j k m a j i)

0)M b p g n g ð j i i o æ ð n p ð m f m j a < j p d k p o n d j a æ ð q r o m j i)

1)Rci æ p n k ð j m o h k m p m ð æ ð q r o m ð o j j c ð c j m s n æ n n q d ð ð ð n c j p g a j p i i m k g ð ð ð)

2)æ ð q r o m g i b n o j c ð c m g l g j k m a j i l p ð k h i d i c d q g i b (o r h s j p g (a m j k m a j i ' r f t n n c j p g m j p o ð n k a j i n ' ð h o i o j æ ð q r o m j p i ð i j r h g æ s o r h g n a ' r c æ næc q i o ð p n a ' æ k i g ð k g t ð i j r h g a j p i o æ o æ k n j g h ð g r ð c ð ð h i i r m k j r o)

Note: I ji (knja nngi ð ncjpg i j o ð n n h g i j q r o p g æ ð q r o m r ð j p o k r h ð n g i) ð q r o n b i m g g c q n c j r o ð n p ð j q m p m i d j q n q j g b ' j q r o æ b i j a æ m ð h n j a p o j h a d k n j o a j i ' r c i æ k n j g h j p m ' j i j o i o j h i p (ð n c p o j r i)

9 Fault Information

9.1 System Fault Information

NO.	Fault name	Solution
,	LQH c fnph a ɸm	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
-	NK jhhpid ɸji a ɸm	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
.	HN jhhpid ɸji a ɸm	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
/	ærhjq rɸjɸb grh	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
0	ærhpi rɸjɸb grh	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
1	ærhjq røhk mɸm grh	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
2	ærhpi nøhk mɸm grh	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
3	ærhjq mpmio grh	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
4	ærhqɸb ɸami qjgrb	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
, +	Ohk mɸm ɸami qjgrb	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
, ,	ærhNJ qjɸɸc	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)
, -	ærhNJ qjgr	ɸ jii oac < jpkponr ɸ c' ɸ kponr ɸ c i nr ɸ c'ac i jii oac h 0hɸpongonɸ jio oac jntec ærfn gnn rɸd ɸac krɸ gh k mɸɸn)

.. Jacc m ærth grhn ð jii oac < jpdkponr ð c' ð kponr ð c i ærth nr ð c'æ i jii oac h 0hðpogonh jio oac gm jnæ ærth gnn rð ðæ knh gh k mðon)

9.2 Inverter Fault Information

NO.	Fault name	Solution
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, Brð jg nqjð b

0	pnjq nqjw b	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo nෂ jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
1	pnpi nqjw b	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo m jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
2	K Njq ශෂ k ශෂ	,) c f ශෂ q ශෂ ශෂ i ශෂ h dioohk ශෂ ශෂ ශෂ ඡ ශෂ ශෂ kෂ ශෂ) -) ශෂ q ශෂ ශෂ ශෂ kෂ ශෂ h dioohk ශෂ ශෂ ශෂ ඡෂ' ශෂ kෂ ශෂ q ශෂ ශෂ i c ශෂ ශෂ ශෂ) .) jio ශෂ gmjm ශර් ශnn rඡ ඡෂ ශෂ ශෂ q ශෂ ශෂ i ශෂ h dioohk ශෂ ශෂ ශෂ ශෂ
3	KQjq ශෂ k ශෂ	,) c f ශෂ q ශෂ ශෂ i ශෂ h dioohk ශෂ ශෂ ශෂ ඡ ශෂ ශෂ kෂ ශෂ) -) ශෂ q ශෂ ශෂ ශෂ kෂ ශෂ h dioohk ශෂ ශෂ ශෂ ඡෂ' ශෂ kෂ ශෂ q ශෂ ශෂ i c ශෂ ශෂ ශෂ) .) jio ශෂ gmjm ශර් ශnn rඡ ඡෂ ශෂ ශෂ q ශෂ ශෂ i ශෂ h dioohk ශෂ ශෂ ශෂ ශෂ
4	KQ< jq mpmi o	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo nෂ jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
, +	KQ jq mpmi o	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo nෂ jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
, ,	p f(jjno< jq mpmi o	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo nෂ jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
, -	p f(jjno jq mpmi o	ඡ jii ශෂ < jpdkponr ඡෂ' ඡkponr ඡෂ i ශර් nr ඡෂ' ශෂ i jii ශෂ h 0hඡpongo nෂ jio ශෂ gm j ශෂ ශර් ශnn rඡ ඡෂ kෂ gh k ශෂ)
, .	ශර් nd qjw b	,) ශෂ kෂ gh j pm j nෂ ශෂ' c f ශර් ඡkpo qjw b' ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ pm ශෂ ශෂ) -) jio ශෂ gmjm ශර් ශnn rඡ ඡෂ kෂ gh j pm ශෂ ශෂ)
, /	ශර් nd qjw b	,) ශෂ kෂ gh j pm j nෂ ශෂ' c f ශර් ඡkpo qjw b' ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ ශෂ pm ශෂ ශෂ) -) jio ශෂ gmjm ශර් ශnn rඡ ඡෂ kෂ gh j pm ශෂ ශෂ)

,0	KQ< j q nqj d b	c f a c n n d g j i i a d i j a a c K Q m t) H f n p m a c o a j k i t h p d q j d b j a a c K Q n a n d b t h i j o c d e n e i a c h s d i p h j k m a d i b q j d b j a a c d i q r n h
,1	KQ j q nqj d b	c f a c n n d g j i i a d i j a a c K Q m t) H f n p m a c o a j k i t h p d q j d b j a a c K Q n a n d b t h i j o c d e n e i a c h s d i p h j k m a d i b q j d b j a a c d i q r n h
,2	< h d i o i j r h g	,) c f a c q i a d i j i i a c h d i o o h k m a p m o a c d i n o g u a d i k j d o) -) d a a c q i a d i j t h k j j n j m a c h d i o o h k m a p m t h d j j c d e ' t h k r i q a c q i a d i j i c o t h d k a d i) .) j i o o a c g m j m a r t n g n n r d t a j a a c q i a d i j i i a c h d i o o h k m a p m m i j r h g
,3	M n d p g p m i o A p d	,) d a a c k r i g h j p m j n d i g u ' t h t p n t g s k a d i) O c d i q r n r t m j q m p o j h a d g a m a c k r i g h t h n j g) -) c f r c a c n e c t h k i s i a c K Q n a n d b i K @ t h d j j g r a a c k r i g h j p m a n l p i a d j n k m a t a n
,4	C m r m i j r h g	t h j i i o a c < j p d k p n r t h c ' t k p n r t h c i a r t n r t h c ' a i j i i o a c h 0 h d p o n g o n h j i o o a c g m j n e c a r t n g n n r d t a a c k r i g h k m a t a n
+	M c r b k m c r b	t h j i i o a c < j p d k p n r t h c ' t k p n r t h c i a r t n r t h c ' a i j i i o a c h 0 h d p o n g o n h j i o o a c g m j n e c a r t n g n n r d t a a c k r i g h k m a t a n
-	D n p g a d i a p d	,) c f r c a c n e c m n t h o i j a a c K Q n a n d b o j K @ s n 50kQ. If no, check the short circuit point. -) c f r c a c n e c K @ g t h j i i o j m a t g) .) d a a c m n t h o i t h g r n j i m a d t t n ' k g n m n o a c D U)
--	< n d m g t i j r h g	t h j i i o a c < j p d k p n r t h c ' t k p n r t h c i a r t n r t h c ' a i j i i o a c h 0 h d p o n g o n h j i o o a c g m j n e c a r t n g n n r d t a a c k r i g h k m a t a n
-.	KQ< M q m j i i a d i A p d	c f r c a c n e c K Q n a n d b n m j i i o m q m g)
-/	KQ M q m j i i a d i A p d	c f r c a c n e c K Q n a n d b n m j i i o m q m g)

-0	C mr m Qj ් b	pn Jq m	ඒ jii oac < jpdkponr ඒ c' ඒ kponr ඒ c i nr ඒ c'ac i jii oac h 0h ඒ pongo n jio oac gm j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
-1	C mr m Qj ් b	a r h Jq m	ඒ jii oac < jpdkponr ඒ c' ඒ kponr ඒ c i nr ඒ c'ac i jii oac h 0h ඒ pongo n jio oac gm j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
-2	Brd ,+h ඒ pon Qj ් b	Jq m	,)ඒ ac k n j gh j p m j n j i ් ් 'ac p a ් t brd h t i j r h g o h k j m n ්)O c ඒ q r a n r ් m j q m p o j h a d ් a m o a b ac o ac p a ් t brd ඒ i j r h ් -)ඒ ac k n j gh j p m a m l p i ් ් ' c f r c ac m ac brd q j ් b a r ඒ a ් ac k r h a n d g m i b) jio oac g ් k j r m j h k i t ඒ ac brd q j ් b s n ac k r h a n d g m i b) H j a ් ac brd j q r q j ් b m k d k n j o a j i a m n c j g a m j o a ් b ac j i n i o j a ac g ් k j r m j h k i t ඒ ac brd q j ් b a r ඒ a ් ac k r h a n d g m i b)
-3	@KN J a (brd A p ්	Jq n j	,)ඒ ac k n j gh j p m j n j i ් ් 'ac @KN g ් h t i j r h g o h k j m n ්)O c ඒ q r a n r ් m j q m p o j h a d ් a n a r h ඒ pon) -)ඒ ac k n j gh j p m a m l p i ් ් ' c f r c ac m ac @KN g ් a r ඒ a ් ac k r h a n d g m i b) .) jio oac g n j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
-4	A i A p ්		ඒ jii oac < jpdkponr ඒ c' ඒ kponr ඒ c i nr ඒ c'ac i jii oac h 0h ඒ pongo n jio oac gm j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
. +	M g t A p ්		ඒ jii oac < jpdkponr ඒ c' ඒ kponr ඒ c i nr ඒ c'ac i jii oac h 0h ඒ pongo n jio oac gm j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
'	Kjr n H o m j h h p i d a j i A p ්		,) c f ac H o m a r j n h b k n j k n j i ac g j i i (a j i a n j h K j r n h o n j ඒ q r a m h i j r h ් -) ඒ jii oac < jpdkponr ඒ c' ඒ kponr ඒ c i nr ඒ c'ac i jii oac h 0h ඒ pongo n jio oac gm j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)
. -	M n r q		,)ඒ ac k n j gh j p m j n j i ් ් 'ac @KN g ් h t i j r h g o h k j m n ්)O c ඒ q r a n r ් m j q m p o j h a d ් a n a r h ඒ pon) -)ඒ ac k n j gh j p m a m l p i ් ් ' c f r c ac m ac @KN g ් a r ඒ a ් ac k r h a n d g m i b) .) jio oac g n j m ac a r (n gnn r qd ඒ ac k n j gh k m ඒ ත)

10 Packaging, Transportation, Storage

- Oc ntno h d oðk f d m j m k f bðb i æ d o m g k @ k f b (d l b b d h j d p m (k n j a i r o r k n j a)
- Pn @ k @ k n g j o j i a j h k d æ h d g o j k m q i o h b o j æ ntno h p n d b c i g l b i o m i n k j r o a j i)
- O m i n k j r o a j i h p n o j h k g r æ P l . / 3 + h i b n j p n b j j n o m i n k j r o a j i i g g g r n i m b p g a j i n)
- Oc ntno h d c q t i h p n o p n æ h c i d g c i g l b)
- O m i n k j r o a j i o h k m q m 5 (, + ° C y / + ° C .
- Oc l p d k i o i k f b d b i i j o n k m t ' n j d i i j o o m i n k j r o d æ j k i d)
- N o j m b o h k m q m 5
 - ◆ (- + y . 0 ' , - h j i æ 6
 - ◆ (- + y / 0 ' . h j i æ 6
 - ◆ (- + y 0 0 ' , h j i æ 6

O c N J a j m n o j m b d f k o d æ m i b j a . + o j 1 +
- N o j m b c p h d æ 5 + y 4 0 M C (l j j i i n a j i)
- Oc n o j m b n j h n c j p g f k o q i d j o ' æ n j h n c j p g g i i r t i d n c j p g k n j o o a n j h p n o i h j d p m)
- Oc n o j m b d h i p k o j . h j i æ n) d d m j h h i o j c r b i d c r b æ ntno h a j m h j m æ i æ d h)
- N o j m b n j h n p i d c o i i j o d n o j s k j n o j æ ntno h)

Annex 1: Inverter Parameter Table

Technical Data	HEC2-S6.0Hr2		HEC2-S5.0Hr2	HEC2-S3.8Hr2	HEC2-S3.68Hr2 ^[7]
PV Input					
H s)KQ mnt kjr m	. 20+R * . 20+R				
H s) qj b	1++Q ^[9]				
l j h d g j k m d b qj b	. 1+Q				
HKKO qj b m i b	, ++Q(0/+Q				
HKK qj b m i b a j m i j h d g k j r n ^[8]	--0Q(/3+Q	, 30Q(/3+Q	, / , Q(/3+Q	, . 2Q(/3+Q	
No ropk qj b	, -+Q				
H s) d k p o p m i o < *	, 0 < *, 0 <				
H s) h j r o d n p d p m i o < *	, 3 < *, 3 <				
l j j) a H K K o m f n * N a d b k n H K K o m f m	-*,				
BAT Side					
o r t q j b m i b	30Q ^[4] / ++Q				
o r t q j b m i b a j m i j h d g k j r m	-0+Q(/++Q	--0Q(/++Q	, 2+Q(/++Q	, 1+Q(/++Q	
M j h h i o r t q j b	. ++Q				
H s) c r b * d c r b p m i d ^[2]	-0 < * - 0 <				
j h h p i d o j i d o r a n	MN/30* < I				
M q m j i i o k r j o o j i	T n				
AC Grid Side(On-grid)					
l j h d g c j p d p o k j r m	1+++R ^[1]	0+++R ^[1]	. 3++R	. 13+R	
H s) j p d p o K j r m	1+++R ^[1]	0+++R ^[1]	. 3++R	. 13+R	
l j h d g c k k m i o K j r m j p d p o o j P o d d B r d	1+++Q< ^[1]	0+++Q< ^[1]	. 3++Q<	. 13+Q<	
H s) < k k m i o K j r m j p d p o o j P o d d B r d	1+++Q< ^[1]	0+++Q< ^[1]	. 3++Q<	. 13+Q<	
l j h d g c k k m i o K j r n a j h P o d d B r d	1+++Q<	0+++Q<	. 3++Q<	. 13+Q<	
H s) < k k m i o K j r n a j h P o d d B r d	1+++Q<	1+++Q< ^[6]	1+++Q< ^[6]	1+++Q< ^[6]	
l j h d g o r d q j b	- . +Q				
B r d Q j b M i b	, 3+Q(-3+Q				
l j h d g o r d a m l p i t	0+ Cu				
< B r d A m l p i t M i b	0+ Cu 0 Cu				
H s) j p d p o < p m i o o j P o d d B r d	-1), <	-, 2<	, 1)0<	, 1<	
M o j p d p o < p m i o o j P o d d B r d	-1), <	-, 2<	, 1)0<	, 1<	
M o < p m i o A n j h P o d d B r d	-1), <	-, 2<	, 1)0<	, 1<	
H s) < p m i o A n j h P o d d B r d	-1), <	-1), < ^[6]	-1), < ^[6]	-1), < ^[6]	
K j r n a o j m	y, < e p n o g a n j h + 3 g d i b o j + 3 g b b d b				
o p c	7.) M o k j r m		70) M o k j r m		

EPS Side

f(pk l j h d g k k m i o k j r m
l j h d g k j r m
H s)j p d k p o < k k m i o k j r m m d c j p o B r d
H s)j p d k p o < k k m i o k j r m m d c B r d
l j h d g j p d k p o q j d b
l j h d g j p d k p o a m l p i t
l j h d g j p d k p o p m i o
H s)j p d k p o p m i o
H s)j p d k p o j q m p m i o k r j o a j i

EFFICIENCY

MPPT efficiency
Euro efficiency
Max. efficiency
Battery charge/discharge efficiency

ENVIRONMENT LIMIT

D b m n n k r j o a j i
 K r j o a j i g n n
 K j a a j i b m
 J q n a j a b o b j n
 J k m a i b o h k m a p m m i b
 H s j k m a j i a a
 C p h d a
 j j a b
 P n n o r a
 j h h p i d a j i r a H N
 j h h p i d a j i r a H o m
 j h h p i d a j i r a K j r o g
 O t k d g j a h a n d i
 d i n g i 塞閑煖鍵開臺藤賴吡德鏡袂缸膝綠廳俵襪嬰第燥摺總授提築匯硯欸機砧錐匯薦廳焚夥鞠伎華瓊愜緇摠鵠隨棉翹

< j i i q m	L p d f K q b
N o j m b O h k m q p m	(/ + ° C q & 30 ° C
N o i m r m i d t	O t m
STANDARD	
N a d t	Ⓜ * @ 1 - , + 4 (, ! - ' Ⓜ 1 - / 22
@ H	Ⓜ 1 , + + + (1 (, ' Ⓜ 1 , + + + (1 (.
@ q m i h i o	Ⓜ 1 + 0 - 4 ' Ⓜ 1 + + 13
Efficiency	Ⓜ 1 , 13.
Certification	@ 0 + 0 / 4 (, ' B 44 ' B 43 ' Ⓜ + - , ' Q @ / , + 0 ' < N * i U N / 222) -

Remark :

- [1] O c b r d a d k j r n a j n Q @ , + 0 m m m / 1 + + Q < .
- [2] w r t c r d b p m i o m m m - 0 < i k j r m m m 1 + + + R)
- [3] O c h c d h t h b d K Q k j r s n a a q j b ' a q k j r n j k m a j i q j b n c j p g g n n a i / 3 + Q ' / 3 + Q (0 / + Q a j n m m k j r n j k m a j i)
- [4] w r k j r j j o q j b h p n o b m o n e i 40Q)
- [5] O c k j r m 1 + + + R j m d b o j a b r d k j r)
- [6] O c q u r d k k m c i a b r d m c r d b w r i n p k k j r @ K N g)
- [7] .) 13 f R m P F j i g)

Annex 2: Battery Parameters

jhkji io	n & HN & %Hj pg	n & HN & %Hj pg	n & HN & %Hj pg	-% n & HN & %Hj pg	-% n & HN & %Hj pg
I jh d gQj b	, + - y Q	- + /) 3 Q	. + 2) - Q	- + /) 3 Q	
H s d ph knjo dji qj b	, , 1) 3 Q	- . .) 1 Q	. 0 + y Q	- . .) 1 Q	
H s d ph knjo dji qj b	3 4) 1 Q	, 2 4) - Q	- 1 3) 3 Q	, 2 4) - Q	
I ph mja o r h Hj pgn	,	-	.	/	
Mo k d	0 + < c	0 + < c	0 + < c	, + + < c	
Ojo g d rbt	0), fR c	, +) - fR c	, 0) fR c	- + y fR c	
Pn g d rbt	/) 1 fR c	4) - fR c	, . 2 2 fR c		
I jh d gKjr m	-) 0 1 fR	0), - fR	2) 1 3 fR		
H s d ph c r b * d c r b pmi o	- 0 <	- 0 <	- 0 <		
t g G d					
@k o G d O d					
Jk m d b o h k m q m					
Najmb O h k m q m					
Cph d d					
< g d					
D b m n n K n j o d j i					
j h h p i d d j i					
No q n D d q j m					
N J D d q j m					
Nr d c j i * j a a	paaji % & m f r %	paaji % & m f r %	paaji % & m f r %	-% (paaji % & m f r %)	-% (paaji % & m f r %)
Certificate					
R d co	1 4 / f b	, - / 1 f b	, 2 4 3 f b	- / 3 , - f b	. 0 3 , 1 f b
d i n d j R % C %	3 + + - + % d + . + % 1 + - + h h	3 + + - + % d / + . + % 1 + - + h h	3 + + - + % , 0 + . + % 1 + - + h h	, 1 + + - + % d / + . + % 1 + - + h h	, 1 + + - + % , 0 + - + % 1 + - + h h
M h r n	, N r d n		- N r d n K m g g		

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