GUIDE

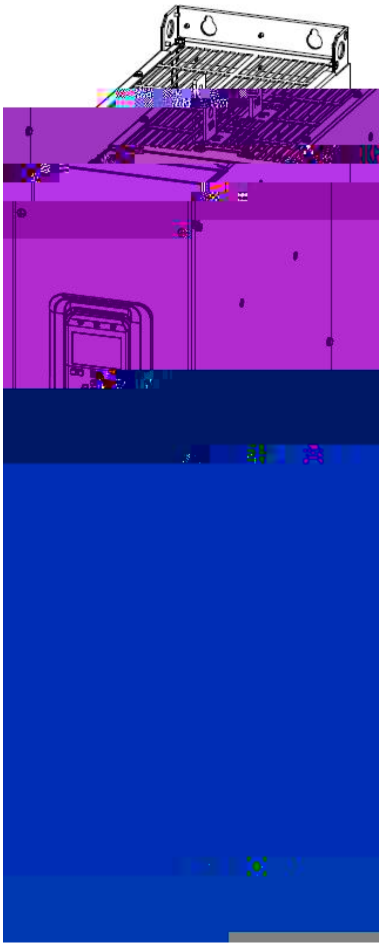
D˩ HF680N ↓

DC-DC ڜُ ج ą й

ʻ V1.00

м ˋE᷉

Wuhan Guide Technology Co.,Ltd.



╠

ĭ h DC-DC ﺶ ج ˛ □ ˘ ˛ ȉ ⌠

ꟸ ꟸ ˪ ŋ ầ ⊢ ˛

ꟸ ῀Ḥ№ ṻ ˚˚

1. ῃ Ⴎ 1
1.1 ݼ
1.2 ڂ
1.3 Ⴎ
2. 4
2.1
2.2 ẃ
2.3 Ð
2.4 ΐ h DC-DC ΐ ݣ ڿ Ữ ۼ
3. ؏ ڿ Ḥ 9
3.1 ۿ Ƅ
3.2 ؏ ڿ
3.3 Ð
3.4
4. Ƅ 16
4.1 DC-DC Ð ؏ ڿ ằ Ữ ΐ
4.2 Ƅ
4.3 ؏ ڿ Φ Φ

11. Ь Ḡ Ī 93
11.1 Ḡ Ī ¿
11.2
11.3
11.4 Ð
11.5 Ь Ḡ ќ

Hu

1˜ Ḡ

ضي Ţ Ψ Ḡ ضر r˘ ą Ḡ ˆ RCD˜

ڜ RCM˜˘ ą Í ڈ Ḡ ˆ RCD˜

ڜˆ RCM˜ Â

ضي ῡ ت B ققم Ḡ ڜˆ RCD˜ ˘ ضي Ḡ ڜˆ RCD˜

Ω˘ غ ˆ ₣ غ ضر ˘ Í L

₣ RCD˘ ▼ φ RCD Â

2˜ ۱ ۷ ۲ ą

ضي ي Ţ ¨Ḥ ƀ ۱ مخ ң ą ˚˚ ج˘ ˚˚ ج ṗ شخ Â

˘ ą ٦ ۱ ۱ Ĩ ۱ U ˜ ∫ Ĭ h DC-DC Ĩ ڜ Â

1.2

(1)

(2) DC-DC

2.4 ĭ h DC-DC ĭ ꝁ ج Ữ غ

ꝑ ˛

1. ₌ ˛ 2 ض ĭ h DC-DC ĭ ꝁꝁ Ꞓ / ⁝ ƀ Ƅ ỉ ꝑ Ŀ Ţ ˘
˜ ᴪ Ħ ˛ ᴴ ᵒᵒ Â₇ ض ȁ ȁ غ
ȉ ₌ Ғ ȝ˛ 2 Ḥ ض / ⁝ ƀ Â
2. ˜ ₇ Ḥ

ɺ ڪ ٦ ɺ ṿ Â

2.4.2

ᆵ ۻ ṗ˘ ꞙ ṗ Â

ῷ ˘ ɢ 95%RH̆ ƀ ̏Ḥ ₀ ˘ Â

℗˜ ۻ ṛ҉ Â

ῷ Â

ȁ ṛ ۼ ṛ Â

ȁ ȁ ȉ̋ Â

˘ Â

ˠ ɢ 1000 ˘ Â 1000 ۺ ˘ ۷ 100

ˠ 1% ˘ ˠ ɺ ȉ̋ ₮ Â 3000 h ʮ

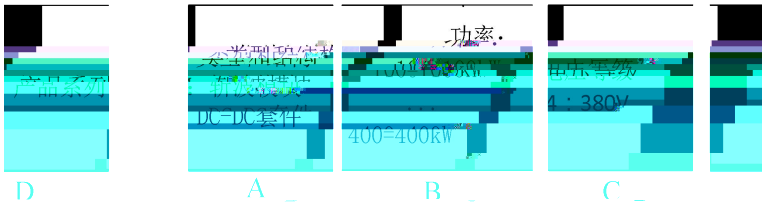
٣ Â

ʽ ۺ ʼ˘ ڗ ą ث Â

3. ﾟﾟ ﾇ Ḥ

3.1 ﾒﾒ ﾑ

HF680N 09F __ □□□ __ 4 _



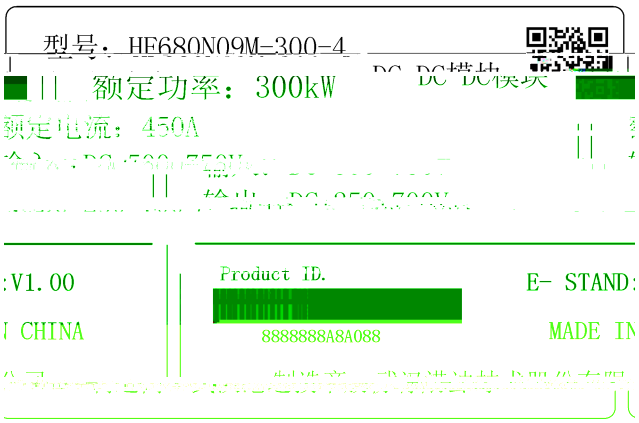
D A B C

3.1.1 ﾟﾟ ﾇ ﾒﾒ ﾋ O

A	ﾟﾟ ﾇ ↓' 680N ↓
B	ﾟﾟ ﾇ ﾒﾒ' 09M' DC-DC ﾈﾇ 09F' DC-DC Ð
C	W' ' 3 β
D	ﾉ ' ﾉ ч 400V

3-1' ﾟﾟ ﾇ ﾒﾒ

3.1.2 ﾟﾟ ﾇ

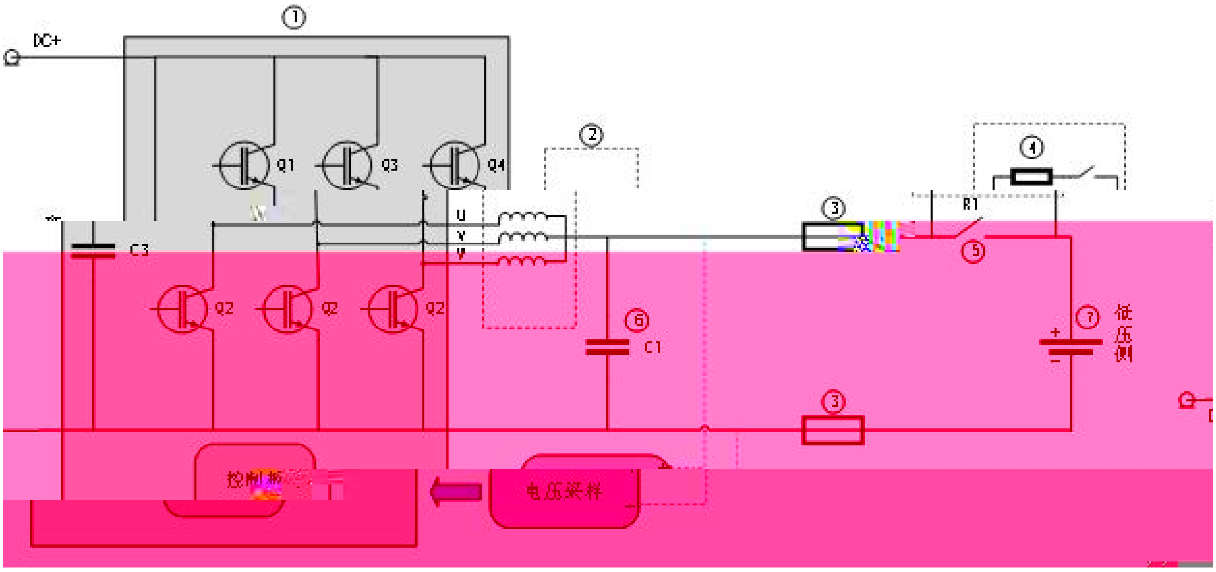


3.1.3 DC-DC Ð ﾒﾒ ﾏ

DC-DC Ð ﾒﾒ	Ć ﾈﾇ	ᵾ ﾉ V_{DC} V	ᵾ (A)	W (kW)	ᵾ ﾉ V_{DC}(V)
HF680N09F-100-4	HF680N09M-100-4	250-700	150	100	500-750
HF680N09F-200-4	HF680N09M-200-4	250-700	300	200	500-750
HF680N09F-265-4	HF680N09M-265-4	250-700	400	265	500-750
HF680N09F-300-4	HF680N09M-300-4	250-700	450	300	500-750
HF680N09F-400-4	HF680N09M-400-4	250-700	600	400	500-750

3.3.2

HF680N09F ↓ DC-DC Đ



1-2 HF680N09F DC-DC Đ

1	HF680N09M	1		
2		3		
3		-		
4		1		
5		-		
6		-		
7		-		

DC-DC

3.3.3

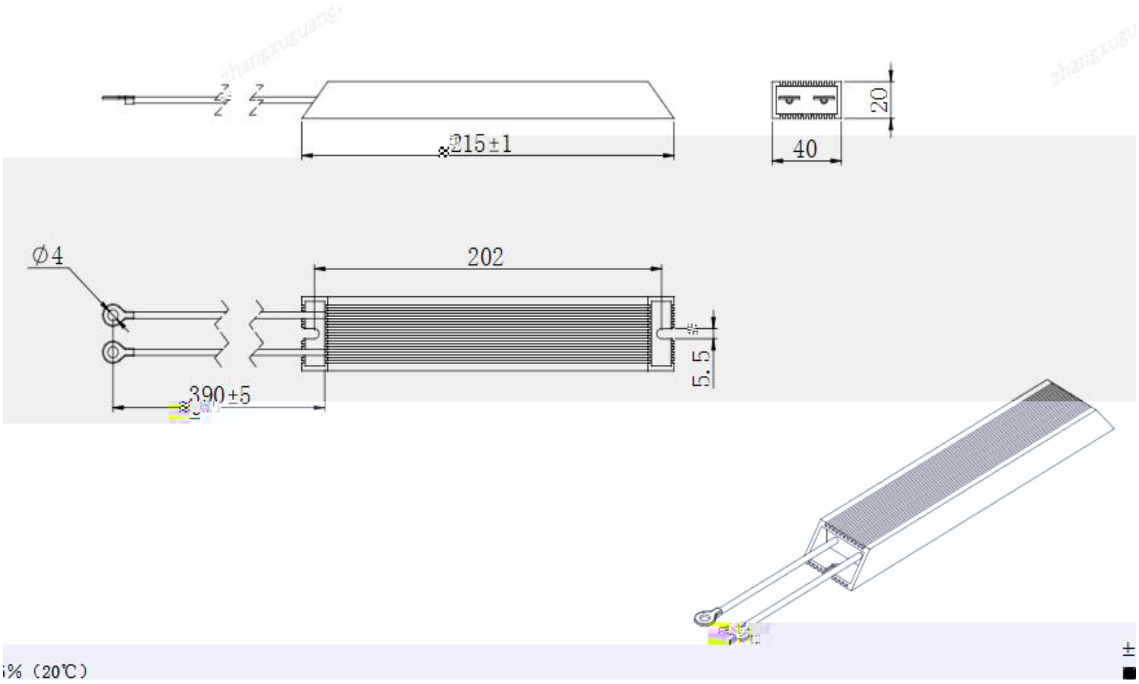
DC
=
AC
~
DC
=
AC
~
DC
=
AC
~
DC
=
AC
~
DC
=
DC
=
M
M

3.4 قمم Ѣ

4.2.1 شج Ѣ قمم

DC-DC Ð Ƈ شج ʊ ₲ Ƶ ƅ

3.4.4 ǁ Ð ﻘﻤﻢ ǐ̋



DC-DC Ð ǁ Ð ﻘﻤﻢ̃ Շ ﻛﺢ Ð

w̄

HF680N09F-100-4 GDHF680NHC-100-800

4. Ь

4.1 DC-DC Ð ç à Ũ ĭ

Ũ

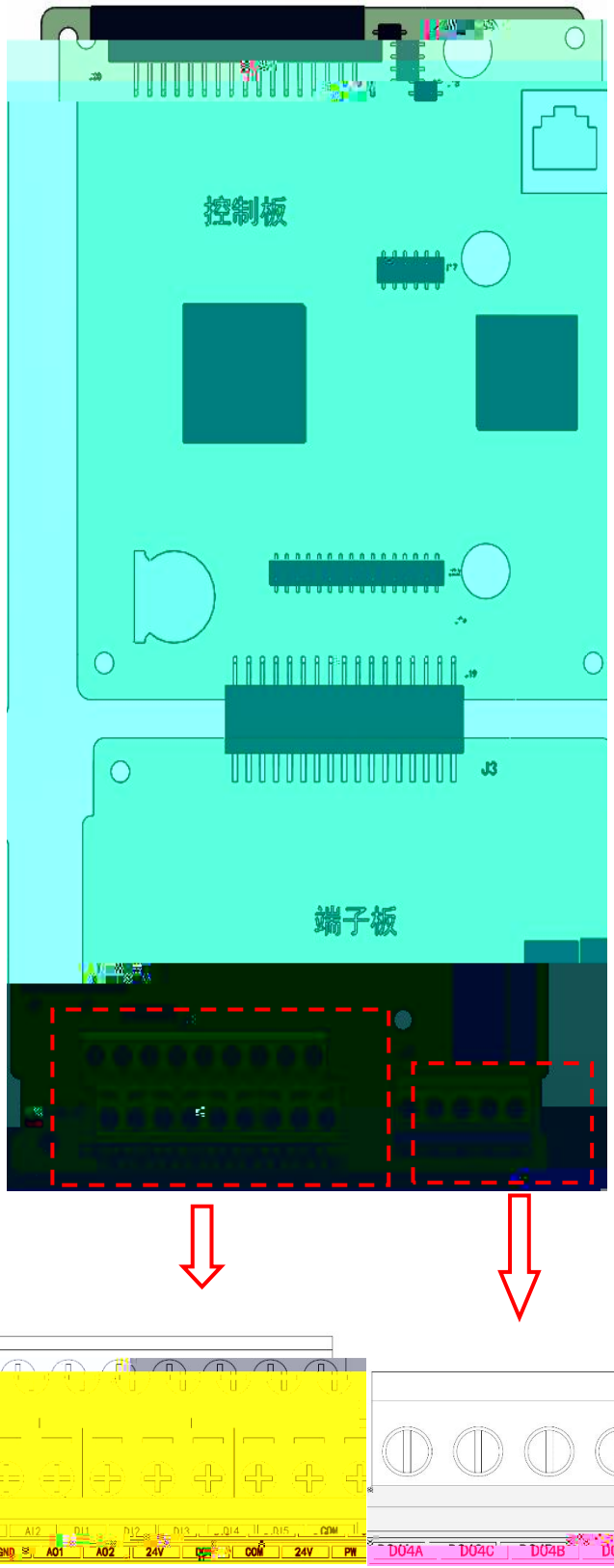
	10cm à 5cm	Ũ	
	-10 Ņ · +40 Ņ ˇ 40 Ņ ˇ ą ˇ 1 Ņ ˇ 1% Â 50 Ņ h	-20 Ņ · +60 Ņ ˇ ɢ 1 Ņ / № Â	-20 Ņ · +60 Ņ
	70 · 106 kPa 0.7 · 1.05	70 · 106 kPa 0.7 · 1.05	60 · 106 kPa 0.6 · 1.05
	10Hz Ů f Ů 57Hz ' 0.075mm 57Hz Ů f Ů 67Hz		

4.2.2 h ⁄

˘ ÈÊ

4.2.4 L

L Й Â


控制板
J3
端子板

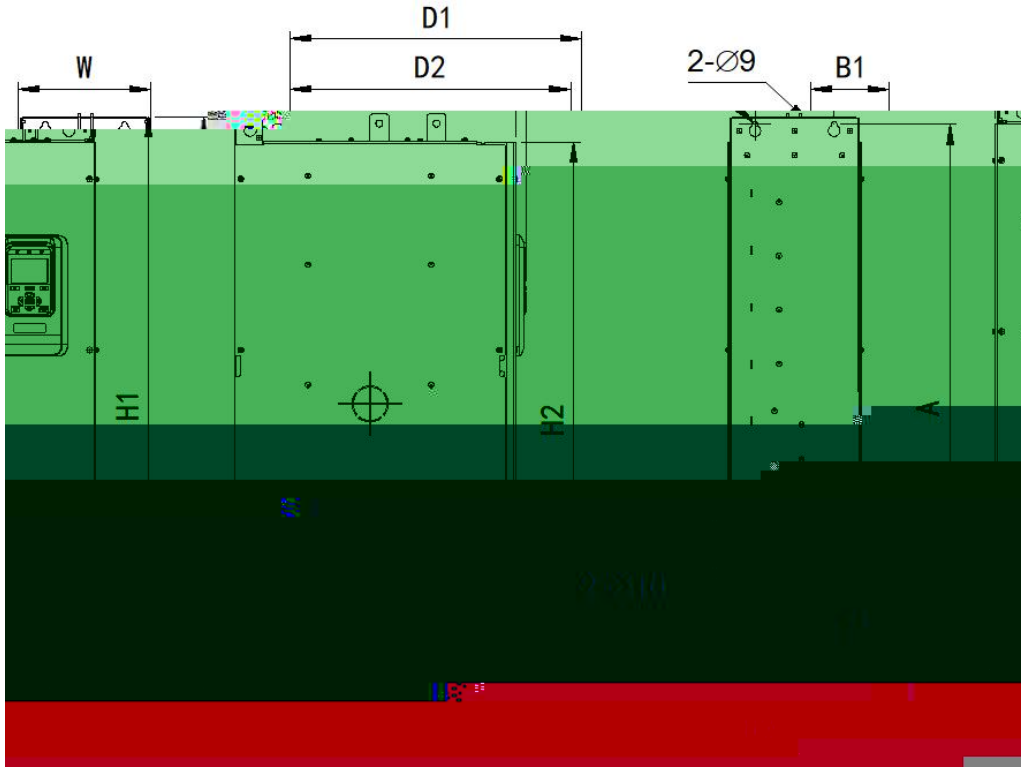
10V
AI1
AI2
DI1
DI2
DI3
DI4
DI5
COM
GND
AO1
AO2
24V
DI
COM
24V
PW
DO4A
DO4C
DO4B
DO5A
DO5C

ⱡ	˟	O	w
	+10V-GND	— 10V	h ᴸ +10V ˘ ₮ ˈ 50mA Âw̅ ƀ ᵝ ك ƀ ˘ ᵝ ك ṿ ﮬ' 1kß -5kß
	+24V-COM	— 24V	h ᴸ +24V ˘ w̅ ƀ ˜ ₮ ƀ ﻍ ᴰ ك ₮ ˈ 200mA ₮ ۸ ҍ¯ 24V
	PW	˜	≠ Ḥ˜ ˩ DI1~DI5 àDO1 ˘ PW ҍ ˘ ғ ҍ¯ 24V

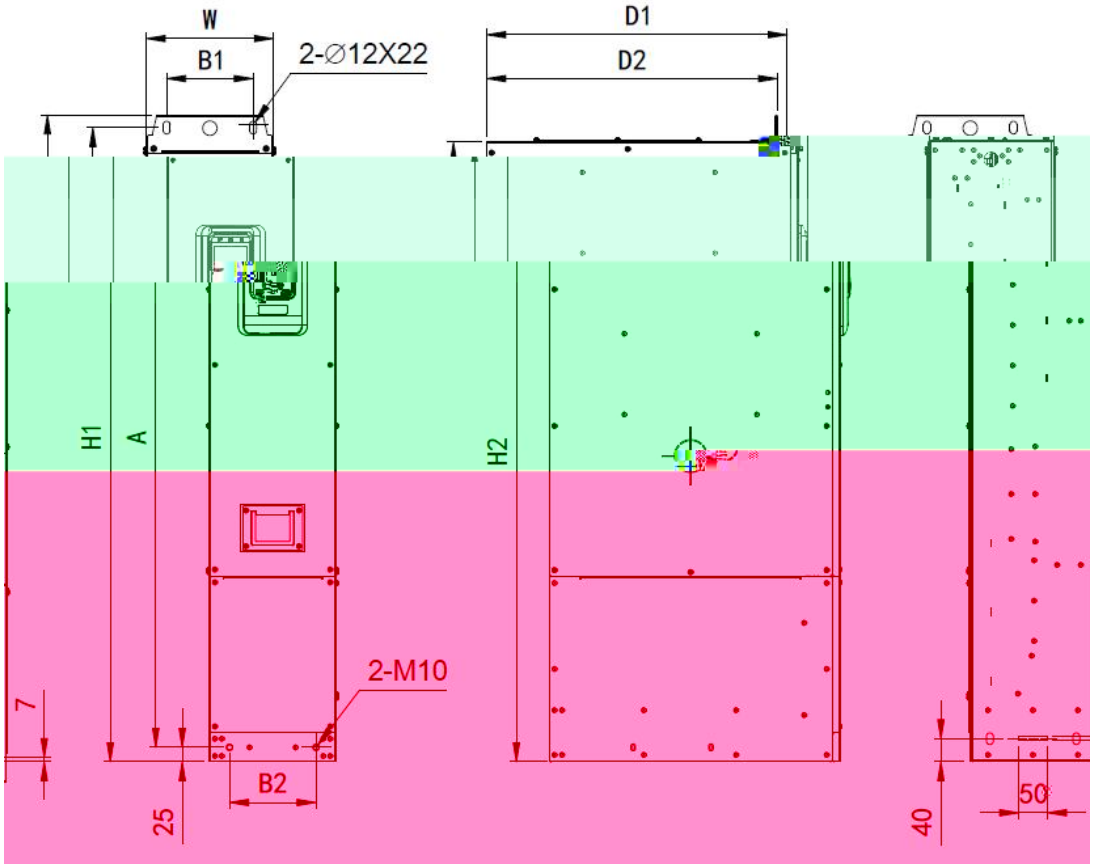
≠ O W

DC+24V

4.3 ج



B4 قمم يد



B5

W		^ ч β' mm~					^ ч β' mm~			^ 8.8 ~	^ kg~
		H1	H2	W	D1	D2	A	B1	B2		
HF680N09M-100-4	B4	920	880	210	462	444	899	125	150	4-M8	55
HF680N09M-200-4											
HF680N09M-265-4											
HF680N09M-300-4											
HF680N09M-400-4	B5	1122	1075	221	522	505	1075	150	150	4-M10	80

5. ƀ

5.1 ƀ

HF680N09M ĭ h DC-DC ȋ ݿ ƀ ˆ ȕ ч ƀ ݿ˜ Ӣ ݮ Â´ Ͽ F1 à LOCAL/REMOTE à F2 à RUN à STOP à Ӣ à /RESET à ˚ ܓ ENTER ˘ ˜ ≠ DC-DC ȋ ݿ ᾰ ˘ ˘ L ܓ Ả Â

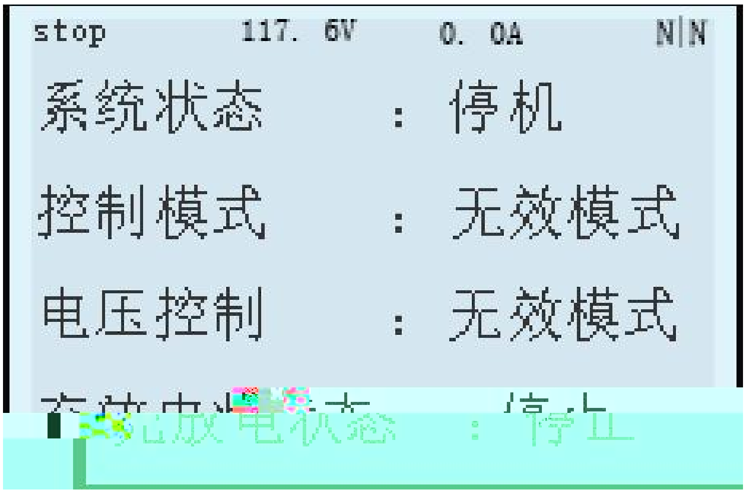
5.2

ENTER

RUN STOP DCDC

LOCAL/REMOTE

5.3



stop charge Discharge

:V

A

ｏ ʽ ẅ 4 ɷ ˘ ҉ Ӣ ˩ ˘ ɣ Ѣ ᾰ̋ ’
ض Δ Ӣ˘ Ӣ ENTER ˜ ɣ ľ ˧ [%] Ŀ Â Ӣ F1/F2 Ŧ Δ
˘ ˜ h ˧ Â

5.4 ê h ˧ Ì

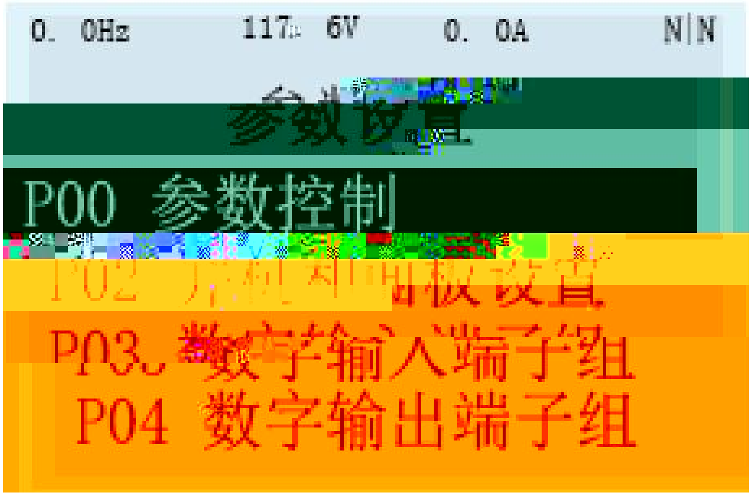
ê h ˧ Ì Ţ˘ ´ ᴤ Ţ ὂ ˧˘ №≢ ˜ ὂ ʬ ƀ Â

h ˧

˧ ˜	˧	ʬ
1	Reference Set ᾰ̋ ṿ	ᾰ̋ ᾰ̋ ṿ
2	Parameter Edit ᾰ̋	ᾰ̋ /
3	Current Error ╠	╠ Ḥ
4	Current Warning ╠ ƥ	╠ ƥ Ḥ
5	Error Event Log	Ḡ ˧˘ r A

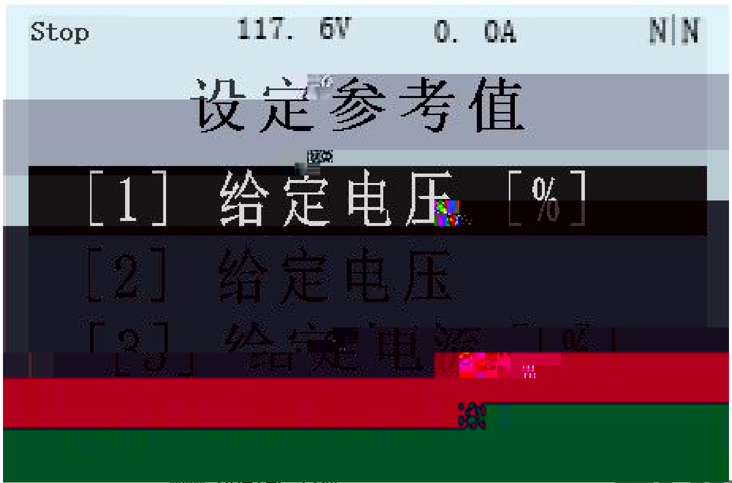
5	Version ؞	L ؿ Đ ؞ غ ƀ ؿ Đ ؞
6	Disp Work Time	

5.4.2ê ẳ Ì ɬ



ẳ
ˆ Parameter Setting˜
˜ ɬ˘ ḱ ᵒᵒ ج ɣ ẳ Â

5.4.3ê ẳ ɣ Ì ɬ



ᾱ̋ ṿ̂ Reference Set˜

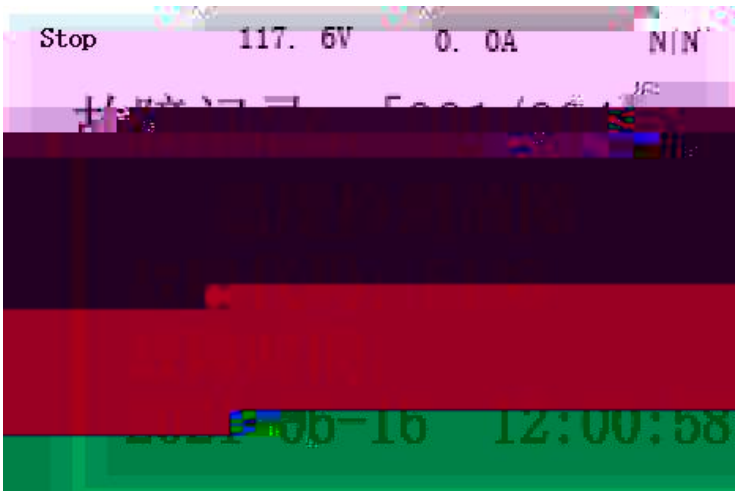
ͣͤ̈ ڃ ̗ܼ ṿ Â

´ Շ ﻹ ˜ w̃ Â

˜ Ʀ	Ʀ	w̃
1	Parameter Initialization α̋ Δ .	α̋ Δ . ч Δ ṿ Â
2	Delete Fault	
3	System Restart β 3 ᘓ ᘓ	L β˘ G
4	Backup Para Pad α̋ м ⌠	ﺿﻲ α̋ м
5	Restore Para Pad α̋ ⌠ DSP	ʎ ʜ ╠ м α̋
6	Compare Para Pad ṗ α̋	α̋ ﻍ м α̋ ˘ U ↓ ₮ ḱ α̋ ˆ м α̋ ч Δ . U ₮ ʌ ṿ ˘ ₮ α̋ ʝ ₮ ʌ ṿ ῐ α̋ ˜
7	Admin Password	α̋ Δ . ч Δ ṿ Â

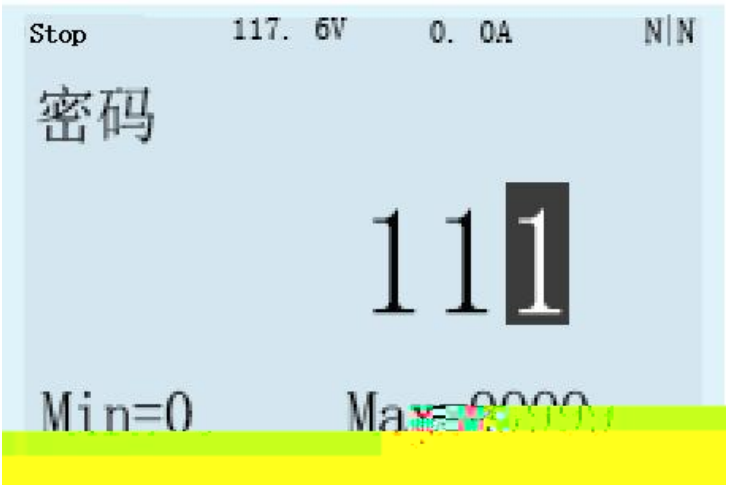
l' Enter Ł ˆ γ ˜ ќ ă Â ' ă ₩ Ψ ă
˘ ғ м ў˘ Þ ˘
Ł

5.4.5ê Ì ϒ



ˆ Fault Record˜
˘ ˆ γ Ηυ Đ Ḥ Â Đ ˘ ˆ γ
Ηυ Đ Ḥ ˘ ´ ˘ ˘ ˘ Ü Ỵ
Â

5.4.6ê ŋ Ì ϒ



ŋ ˆ Access Permissions˜
ϒ Ţ ˆ ą à ă ≠

6. :

6.1.

DCDC P09.03 DCDC

1. DCDC
2. DCDC

6.1.1

DCDC

P9.03 [1] P9.04 [1]
DCDC

8

P9.03 [1] P9.04 [2]
DCDC

8

P9.03 1 P9.04 3
DCDC

8

6.1.2

DCDC

P9.03 2 DCDC 8.2 2

8

DCDC

DCDC

P09.40 DCDC

P09.40

P09.39 DCDC

P09.39

6.1.3

DCDC

P9.03 3

3

DC

DC

ㅓ ㅎ ㅓ ㅕ. U2

‰ È Ÿ' K = 1/2

ќ ㅓ ㅎ ㅓ ‰ ' P01.0 = K

6.2.2 ㅎ ㅓ ‰

ㅎ ㅓ ㅕ. U1

ㅎ ㅓ ㅕ. U2

‰ È Ÿ' K = 1/2

ќ ㅎ ㅓ ‰ ' P01.22 = K

6.2.3 ‰

A ㅓ ㅕ. Ia1

A ㅓ ㅕ. Ia2

‰ È Ÿ' Ka = 1/2

ќ ㅎ ㅓ ‰ ' P01.2 = Ka

B ㅓ ㅕ. Ib1

B ㅓ ㅕ. Ib2

‰ È Ÿ' Kb = 1/2

ќ ㅎ ㅓ ‰ ' P01.3 = Kb

B ㅓ ㅕ. Ic1

B ㅓ ㅕ. Ic2

‰ È Ÿ' Kc = 1/2

ḱ ʊ ㄱ ‰ ' P01.4 = Kc

6.3.Ḡ

DCDC ⱳ ᴸ Ḡ ˇ ғ Ḡ ˆ ą Ь ' ₣ ˇ DCDC ⱳΨ Å
ˇ ғΨ℗ h ᶎγ Ḡ ŋ Â

6.3.1 ㄱʊ ˇ ㄱḠ

w	O		
P7.00	ㄱʊ ㄱ ỵ	400V ㄱʊ ㄱ ㄱ	**[800V]**
P7.01	ㄱʊ ㄱ ỵ		

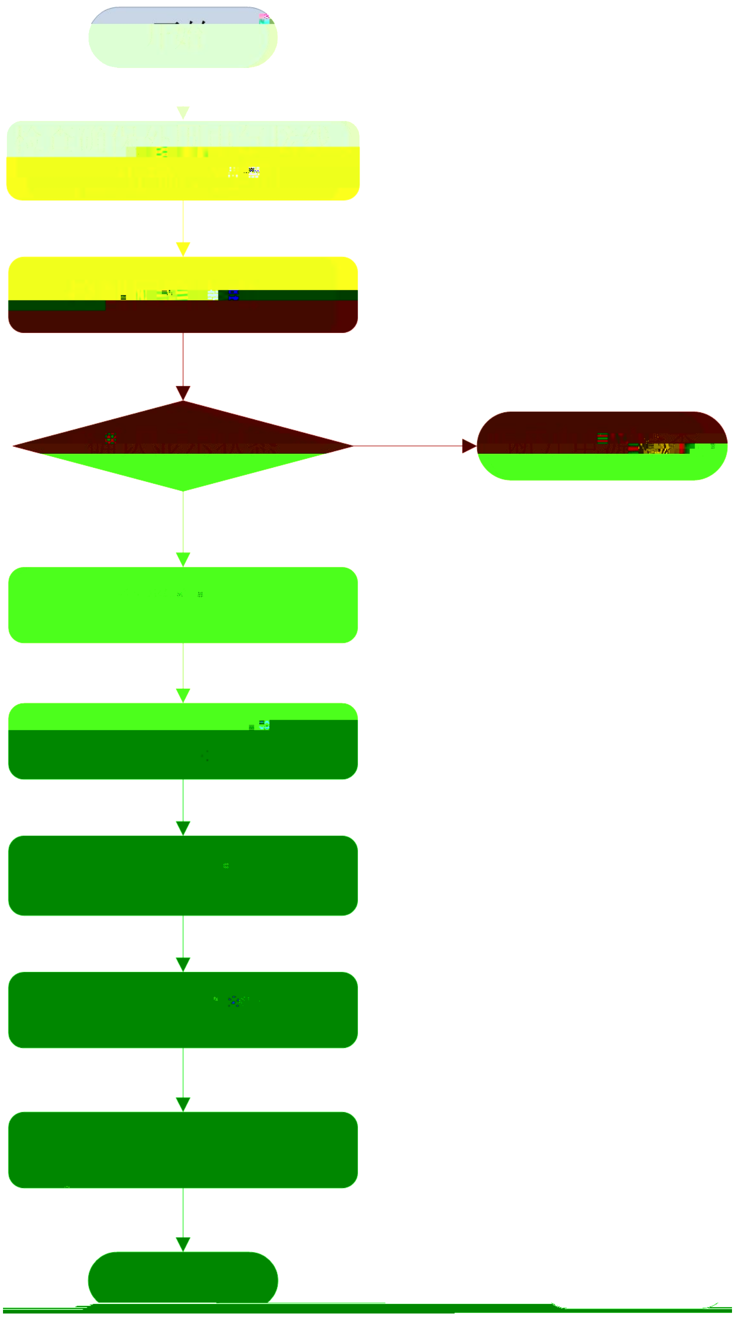
6.3.6 h ศ(ศ) ∞

w	O	
P7.18	h ศ(ศ) ∞	h ศ(ศ) ∞ [2.0s]

6.3.7 Ḡ ą

w	O	
P7.21	۱ ט ۱Ḡ ą	[0] [1] ą
P7.23	۷ ۱ ט ۱Ḡ ą	[0] [1] ą
P7.24	Ḡ ą	[0] [1] ą
P7.25	Ḡ ą	[0] [1] ą
P7.26	h ศ Ḍ	[0] [1] ą
P7.27	h ศ	[0] [1] ą
P7.28	ศ Ḍ	[0] [1] ą
P7.29	ศ	[0] [1] ą

7.



7.1.

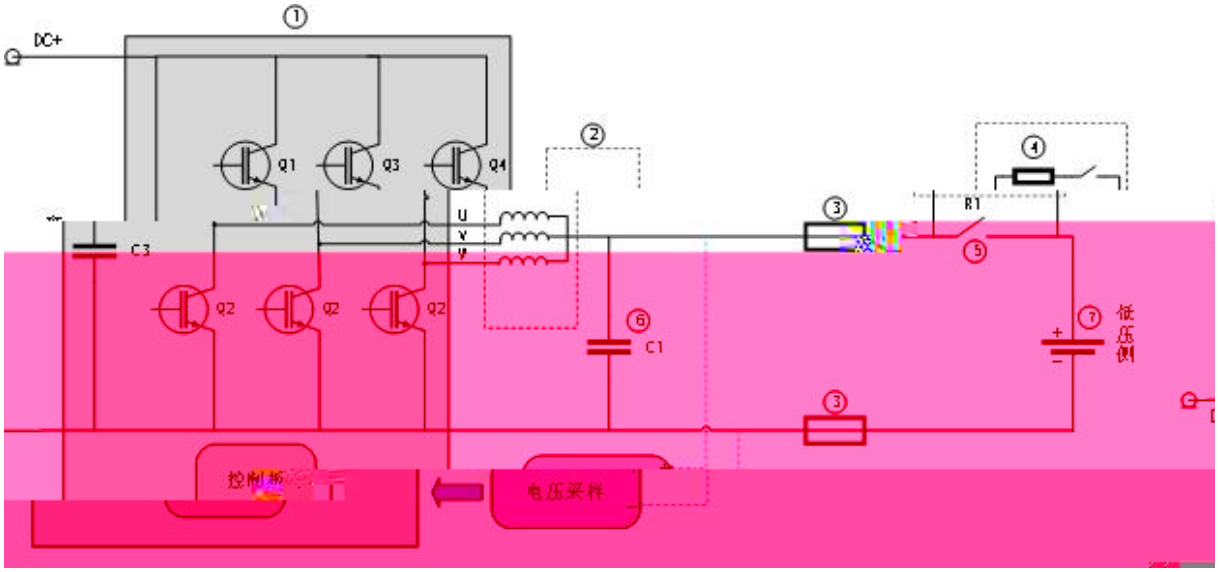
7.2.

5.4.4

7.3.2 ǎ

ɢ DCDC ˘ ą ,˘ ... Ḥ Â

w̄ ' Ӣ Ь Â



7.4. ǎ

7.4.1 ƀ

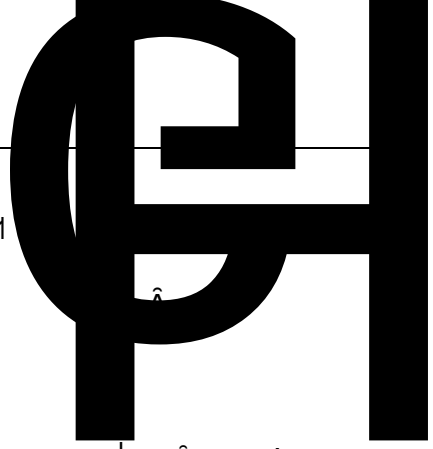
L ч ⁄ Ţ ˜Ḥ à˜ w P09.03 ò L Ô ɛ

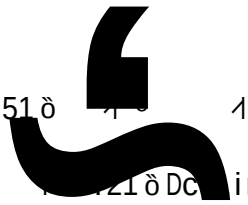
P09.04

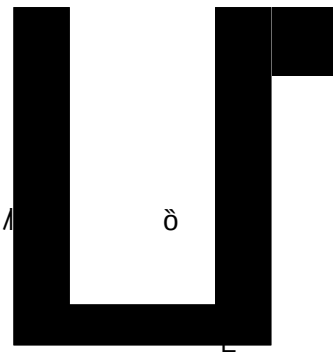
ò ⁄ L Ô Ь ƀ

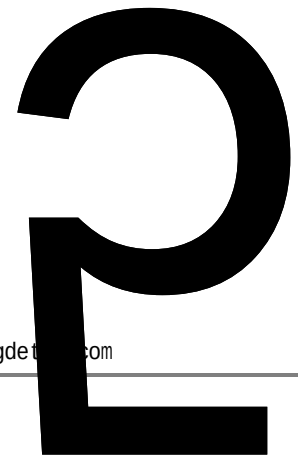
L ^ P09.03˜ ⁄ L ^ P09.04˜

⁄ ^ ˜Ḥ ˜









ψ ˩ ̃Ḥ ˘ Ḡ ʊ ⺁Ѣψ P09.40Â ʊ ⺁

P09.40 ˘ ̃Ḥ ꟈ 0

2. ʊ ⺁ ᒪ' ⺁Ӣ P09.39ծ ʊ ⺁ ᒪ Ô ˘ DCDC

ψ ˩ ˘ Ḡ ʊ ⺁Ѣψ ᵞ ɢ P09.39Â ʊ ⺁

ᵞ ɢ P09.30 ˘ ꟈ 0

3. ⺁ʊ ⺁ ᒪ' ⺁ Ӣ ⺁ ṿ˘ ض Ӣ ᒪƀ

ˆ

w̄ Ḡ ˜

4. ⺁ʊ ⺁ ᒪ' ⺁ Ӣ ⺁ ṿ˘ ض Ӣ ᒪƀ ˆ w̄

Ḡ ˜

' ʊ ⺁ ᒪ , ⺁ʊ ⺁ ᒪṿ ꟈ ⺁

Ӣ ⺁ ṿÂ

7.4.4 h ђα̋

h ђ ̃α̋ Ӣ '

w̄	O	ṿ	
P3.03	˜ 4	10 [h ђ]	h ђ ї Ḥ
P3.04	˜ 5	9 [ђ]	ђ ї Ḥ
P4.03	₮ 4	8 [h ђḤ]	h ђ ₮Ḥ
P4.04	₮ 5	7 [ђ]	ђ ₮Ḥ
P8.16	h ђ ̃	1.0	-
P8.17	h ђ₽	2.5	-
P7.17	h ђ₽ ∞	5.0	-
P7.18	h ђ ∞	2.0	-

		]	
P9.03	L	1 [۱]	-
P9.04	۱ L	1 [ˇḤ]	-
P33.0	ProfiNet ą	0ʹ 1ʹ ą	ч1ą
P33.21	~ [W4]	1 [L 0]	L Йį
P33.23	~ [W5]	18 [۱V]	۱

L Йį ʹ

β	1	0	
Bit0		Å	⁘ ۱ Ƣ˘ ˇ Ḡ
Bit1	Ḡ	Ḡ	-
Bit2	Ḡ	Ḡ	-
Bit3	β		-
Bit4			⁘ ۱ ˇ Ḡ
Bit5	ϼ		ϼ⁘ ۱ ˇ Ḡ
Bit6	L .A		L ₓₙ .A
Bit7	L .B		L ₓₙ .B
Bit8	۱ L .A		۱ L ₓₙ .A
Bit9	۱ L .B		۱ L ₓₙ .B
Bit10	Ḡ	Ḡ	-
Bit11	Ḡ	Ḡ	-
Bit12	Ḡ	Ḡ	-
Bit13	Ḡ	Ḡ	-
Bit14	Ḡ	Ḡ	-
Bit15	Ḡ	Ḡ	-

Йį ʹ

β	1	0	
Bit0	‰		-
Bit1			-
Bit2			-
Bit3	ϼ		-
Bit4-5	ˇḤ		00ʹ Å 01ʹ ˇḤ 10ʹ
Bit6-7	L		00ʹ 01ʹ ۱ L 10ʹ L 11ʹ wˉ L
Bit8-9	۱ L		00ʹ 01ʹ ˇḤ 10ʹ 11ʹ ˫
Bit10	Ḡ	Ḡ	-
Bit11	Ḡ	Ḡ	-
Bit12	L	ضر L	1ч ˇ 0ч ضر L

Bit13-15			000' Δ . 001' Å 010' 011' 100' þ 101' ˜H 110' ‰ 111' PB Δ .

ːː β Ω ˜ [W4] bit0 =1 ˇ DCDC ˇ bit0=0 ˇ DCDC Å
ːː β Ω ˜ [W5] ˥ ṿˇ 0-1000 0 ~ 1000V

7.5.4 ą Modbus └Ω Å

ą Modbus └Ω Å Ӣ '

w	O	ṿ	
P8.00	Ω˙	3 [MODBUS]	-
P8.01	└	1 [ƀ]	-
P8.03	A	1 [A]	-
P8.04	ɒ	3 [Modbus]	-
P9.03	└	1 [˥]	-
P9.04	˥ └	1 [˜H]	-

Modbus └ Ӣ '

β	1	0	
Bit0		Å	ːː ˥ Ω˙ ˇ Ḡ
Bit1	Ḡ	Ḡ	-
Bit2	LOCAL	REMOTE	ˇ ⁄℗
Bit3	FAULT_RESET		-
Bit4	EXT_FAULT		ːː ˥ ˇ Ḡ
Bit5	EXT_ALARM		þːː ˥ ˇ Ḡ
Bit6	CtrlMode.A		└ .A
Bit7	CtrlMode.B		└ .B
Bit8	VoltCtrlType.A		˩ └ .A

Bit0	Ready	
Bit1	RUN	Sto

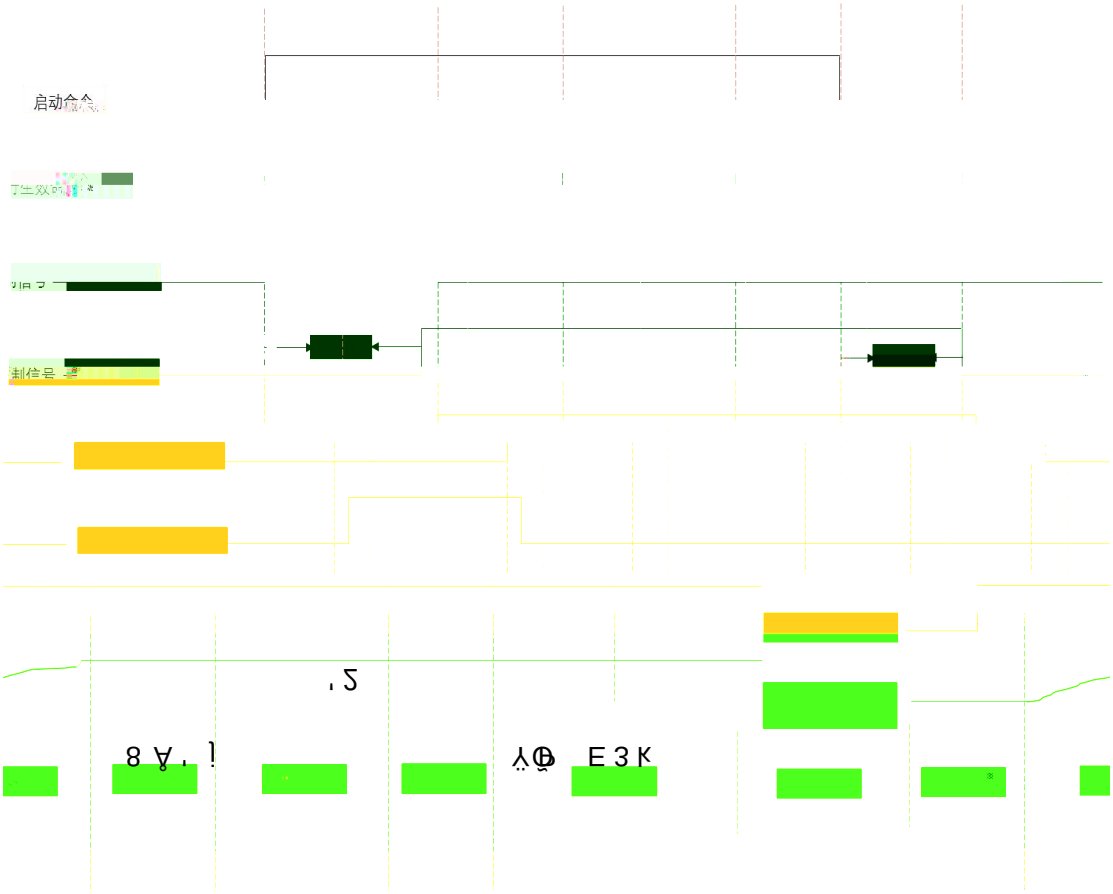
1	01	Address = 1	01

8. W جشہ

8.1. L ь

L L جشہ h ˘ جشہ L β ɒ ضي ڀ ® ΐ Ω
˜ W Â
جشہ G ˚ ₩ ↓ β Â

8.1.1 Ω¯ ь ↓ ¡



1> ↑ ק ... P7.17 5 ~ ˇ P7.18
ч 2 ~ ˇ ↕ ↑ ק ... /
2> h ק ... P7.17 5 ~ ˇ P7.18
ч 2 ~ ˇ ↕ ↑ ק ... /
3> ↑ ק └Ḥ ч D04 ˇ ↑ ק ĩ Ḥ ч DI4
4> h ק └Ḥ ч D05 ˇ h ק ĩ Ḥ ч DI5
5> شي ą ٧ ١ ט h ק c ˇ h

Bit6	L .A		L .A
Bit7	L .B		L .B
Bit8	۱ L .A		۱ L .A
Bit9	۱ L .B		۱ L .B
Bit10	Ḡ	Ḡ	-
Bit11	Ḡ	Ḡ	-
Bit12	Ḡ	Ḡ	-
Bit13	Ḡ	Ḡ	-
Bit14	Ḡ	Ḡ	-
Bit15	Ḡ	Ḡ	-

8.1.3

β	1	0	
Bit0	‰		-
Bit1			-
Bit2			-
Bit3	ɒ		-
Bit4-5	˜Ḥ		00' Å
			01' ˜Ḥ
			10'
Bit6-7	L		00'
			01' ۱ L
			10' L
			11' w L
Bit8-9	۱ L		00'
			01' ˜Ḥ
			10'
			11' ˗
Bit10	Ḡ	Ḡ	-
Bit11	Ḡ	Ḡ	-
Bit12	L	㎜" ک	

8.1.4

bit13-15	O	
000(S1)	Δ .	Δ . └ ۱ ˇ Ð ~ S2
001(S2)	Å	Ƣ˥ ɒ Uˇ ~ S3
101(S3)	˜Ḥ	˜Ḥ Uˇ ~ S4. ₹ ~ S6
110(S4)	‰	└ ɒ ǐ ۱ˇ ˇ w Ŀ ˇ ~ S5
010(S5)		Å ɒ ˇ ~ S2˜ ₹ ~ S6˜ ɒ ~ S7
011(S6)		β ɒ ˇ ~ S2
100(S7)	ɒ	ɒ Uˇ ~ ╠ ₩ ⊥
111(S8)	PB Δ .	PN ą ˇ ~ S8˜ Δ . Uˇ ~ S2

8.2. Ỵ

8.2.1 ۱

۱ ضِ Ь ƀ Ţˇ Ь Ь
ƀ ضِ˜Ḥ Ӣ '
Ӣ ҥ ҩ ۱ ˇ ۱ ˆ ɣ № ˇ Ӟˆ ɣ Â
۱ Ỵˆ ɣ P10.00 Â

w	O	
P8.01	└	[0] IO **[1] ƀ ɣ └ ч ɒ** [2]Modbus [3]Dp
P8.02	۱ └	[0] IO **[1] ƀ ɣ └ ч ɒ** [2]Modbus [3]Dp
P9.03	└	[0] **[1] ۱ ч ۱ └** [2] [3]w
P9.04	۱ └	[0] **[1]˜Ḥ ч˜Ḥ** [2] [3] ˩
P9.00	۱	۱ ۱ Ỵ

		(⺅ ⱴ)
P8.04	ב	[0] [1]AI1 [2]AI2 [3]Modbus [4]Dp
P8.08	⺅ 㶊	⺅ Ӎ ҉ ⺄ Ѣ Ӎ ѿ ; ч 5.0%/s, ɣ ⺅ ч ⱴ

' P8.04 ב ч 0̛ ̃ Â ỉ ᵣ ẵ

ľ 5.4.3 ê ẵ ⱴ Ì Ŀ

ƀ ض Ӎ '

Ӎ ⺅ ˘ ₇ ⺅ ʊ ⺅ Â

ʬ	О	
P8.01	ᒪ	[0] IO **[1] ƀ ɣ ᒪ ч ם** [2]Modbus [3]Dp
P8.02	⺅ ᒪ	[0] IO **[1] ƀ ɣ ᒪ ч ם** [2]Modbus [3]Dp
P9.03	ᒪ	[0] **[1] ⺅ ч ⺅ ᒪ** [2] [3] ʬ
P9.04	⺅ ᒪ	[0] [1] ̃Ḥ **[2] ч** [3] ˩
P9.00	⺅	⺅ ⺅ ⱴ (⺅ ⱴ)
P8.08	⺅ 㶊	⺅ Ӎ ҉ ⺄ Ѣ Ӎ ѿ ; ч 5.0%/s, ɣ ⺅ ч ⱴ
P9.21	Dc-Link ⺅ ᒪ ⱴ	Ӎ ̆ ⺅ ʊ ⺅
P9.26	Dc-Link ⺅ ᒪ ⱴ	Ӎ ̆ ⺅ ʊ ⺅
P9.51	⺅ ʊ ⺅ ᒪ	0: ƀ 1' Modbus 2' Dp
P9.52	⺅ ʊ ⺅ ᒪ	0: ƀ 1' Modbus 2' Dp

		[1] **[2]** [3]
P9.01		
P8.04		[0] [1]AI1 [2]AI2 [3]Modbus [4]Dp
P8.06		0: P8.04 1:
P8.09		5.0%/s

P8.04 0

5.4.3

P8.06 0 P8.04 1

8.3.1

8.2.3

P8.01		

		[4]Dp
P8.09	تمج	˘ ｗ ;҉ ˥ ҍ Ӎ ǃ ; ч 5.0%/s, ɣ ч ṿ

P8.04 פ ч Ơ ˜ Â ΐ r ᾅ

ľ 5.4.3 ê ᾅ ṿ Ì Ŀ ;

P8.12 =2 ѣ ᾃ ˘ ῐ ṿ ƀ Կ Ω˥ ᐟ ᾃ

P8.12 =3 ѣ ᾃ ˘ ﻧﻬ ṿ 80% ƀ ԿΩ˥ ᐟ ᾃ

8.3. ѡ

8.3.1 ᐟ ﻛﺢ

DCDC شجـ ˪ ᐟ ᵘ ᐟ ﻛﺢ ѡ ʽ ضي ƀ Կ Ӎ˘ ᐟ˄ ᐟ ᵘ ᐟ˜ ΐ . ˘ ˩ DCDC شجـ ˠ ᐟ ᵘ ˘ ⌠ ᐟ ضي ѿ ᐟ مخ ῤ Â ᐟ ᵘ ᐟ ﻛﺢ ѡ Ţ˘ ᐟ ᵘ ᐟ ѣ ᐟ ᵘ ᐟ ﻛﺢ ṿ ˜̄ Ӎ يحـ ʽ

ﻛﻼ

8.4.1 Modbus

Modbus Йį'

w	O	
P32.01	MODBUS ID	Min=1 à Max=255 ч 1
P32.02	MODBUS فمم	[0]:RS485; [1]:RS232 ч RS485
P32.03	MODBUS	[0] 9600 BPS [1] 14400 BPS [2] 19200 BPS [3] 38400 BPS [4] 56000 BPS [5] 57600 BPS [6] 115200 BPS
P32.4	β	[0] None_8_1_CFG [1] Even_8_1_CFG [2] Odd_8_1_CFG [3] None_8_2_CFG [4] Even_8_2_CFG [5] Odd_8_2_CFG
' ¥o ă US Â	U ĭ ک ˘ ĭ ک	U 'P ˘ MODB

Modbus ٦ ضخي '

ɒ Ω ˜ ث ɒ^ w ' 05Ħ

modbus β ضخي 10 L	O	Ɨ	R/W
0	Å	0: Å ' 1' '	W
1	Ḡ	Ḡ	-
2	ضر Ⓟ	1' Ⓟ	W
3	β	1' β'	W
4		0' ' 1' '	W
5	ɒ	0' ' 1' ɒ'	W
6	ƀ .A	00: 01: ٨ 10:	W
7	ƀ .B		W

		11: w̃	
8	⅃ .A	00: 01: ᷉Ḥ 10: 11: ⁻	W
9	⅃ .B		W
10-15	Ḡ	Ḡ	-

ů̈ ث ɒ̂ w̃ ' 02H̃

modbus β خيض 10 L	O	Ⱨ	R/W
0	‰	0ʻ ' ‰ '	R

7 -

0X ⅃ ᵢ ⅄ ⅄ ɫ Ϝ w ı ∩ ∩ Ḉ Ḉ

Ḉ ɫ ɕ ɕ

· ɩ -

modbus 10 خي ضر L	O	Ч	R/W
0	DI ~	DI ~	R
50	~ 1[V]	100 => 1.0[V], -10 ~ +10[V]	R
51	~ 1[I]	100 => 1[mA], 0 ~ 20[mA]	R
52	₹ 2[V]	100 => 1.0[V], -10 ~ +10[V]	R
53	₹ 2[I]		

12	₣ B	100=>10.0A	R
13	₣ C	100=>10.0A	R
17	۱	100=>10.0V	R
18	۱	100=>10.0V	R
19		100=>10.0	R
21	۱%	100=>1.0%	R
22	₣w %	100=>1.0%	R
23	₣ %	100=>1.0%	R
50	A01 ₣ 1	10 => 1.0[%]	R/W
51	A02 ₣ 2	10 => 1.0[%]	R/W
60	٦	[07..00] : ٦ [15..08] : ɐ ٦	R
62	ő	[07..00] : ٦ [15..08] : ɐ ٦	R
100	۱ [0.1%]	10 => 1.0%	R/W
101	۱ 0.1V]	10 =>1.0V	R/W
102	0.1%	10 =>1.0%	R/W
103	0.1A	10 =>1.0A	R/W
104	w 0.1%		R/W
105			

8.4.2 PN

DCDC شجـ ا PN ه ˘ PN ١ . ą PN w , ą
PN DCDC شجـ Ω ˘ ь ɒ Â ɒ Ţ ч ƀ Â

L

β	1	0
Bit0	Å	
Bit1	Ḡ	Ḡ
Bit2	Ḡ	Ḡ
Bit3	β	
Bit4		
Bit5	ꝑ	
Bit6	L .A	00'

			101' ˜H 110' ‰ 111' PB Δ .

'

ƀ ą ƀ ضي ® W ˘ ضي DCDC شجر ~ ҥ ╠ ą ضر
DCDC شجر ƀ ' DCDC غجشجر ɒ ® ƀ

9. ă

9.1. w ă №

ă ~ Ь ₹	P0 ă L P2 P3 ~ P4 ₹
~ Ь ₹ Ḡ ă	P5 ~ P6 ₹ P7 Ḡ ă
Ω Å L	P8 Ω ă
DCDC ˜ ă ヽ ¨Ḥ ﺵ ă Modbus	P9 DCDC L P10 ﺵ ă P32 Modbus

		ч ˘ ˫ ƀ
1		L
3	L .a	β 1 ɛ β 0 L Ḥ ˘ 00
4	L .b	˘ 01 ∕ ˘ 10 ˘ 11 w
5	∕ L .a	β 1 ɛ β 0 ∕ L Ḥ ˘ 00
6	∕ L .b	˘ 01 ˇḤ ˘ 10 ˘ 11 ˫
7	Å	L Å
8	β	β w
9	Ø ƈ	Ø ƈ Ɋ
10	h ƈ	h ƈ Ɋ
11	Å Ḥ	~ ч
12	Å Ḥ .NC	~ ɣ ч
13	FUNC 12	
14	FUNC 13	
15	FUNC 14	
16	FUNC 15	

9.2.2 ₣ P4

w	O		₯	ɣ
P4.0	₣ 1	w ˇ ₣	0˙ 15	0
P4.1	₣ 2	w ˇ ₣	0˙ 15	0
P4.2	₣ 3	w ˇ ₣	0˙ 15	0
P4.3	₣ 4	w ˇ ₣	0˙ 15	0
P4.4	₣ 5	w ˇ ₣	0˙ 15	0

w ˇ ₣ w Й ˈ

ɣ	w	
0		κ ∨ w
1	Ḥ	ч
2	₣	˚ ƈ Ü ˘ ₣ ON Ḥ
3		˚ ƈ ‰

ă

P5.6	AI1 ẏ	AI1 ẏ	-300.0˙ 300.0 [%]	0.0 [%]
P5.7	AI1 ˥	AI1 ˥	-10.00˙ 10.00 [V]	10.000 [V]
P5.8	AI1	AI1	0.00˙ 20.00 [mA]	20.000 [mA]
P5.9	AI1 ẏ	AI1 ẏ	-300.0˙ 300.0 [%]	100.0 [%]
P5.18	AI2 فمم	[0] [1]0˙ +10V [2]-10˙ +10V [3]0˙ 20mA	0˙ 3	3
P5.19	AI2	AI2 Â ẏ ỉ Ա مخ ỉ ˗ ą Â ẏ ↕ Ψ ẏ ; Й ˗ p ڑ Ψ ť Â	0.0˙ 1000.0 [ms]	25.0 [ms]
P5.20	AI2 ˥ Ẓ	AI2 ˥ Ẓ	-10.00˙ 10.00 [V]	0.000 [V]
P5.21	AI2 Ẓ	AI2 Ẓ	-20.00˙ 20.00 [mA]	0.000 [mA]
P5.22	AI2 ˥	AI2 ˥	-10.00˙ 10.00 [V]	0.000 [V]
P5.23	AI2	AI2	0.00˙ 20.00 [mA]	0.000 [mA]
P5.24	AI2 ẏ	AI2 ẏ	-300.0˙ 300.0 [%]	0.0 [%]
P5.25	AI2 ˥	AI2 ˥	-10.00˙ 10.00 [V]	10.000 [V]
P5.26	AI2	AI2	0.00˙ 20.00 [mA]	20.000 [mA]
P5.27	AI2 ẏ	AI2 ẏ	-300.0˙ 300.0 [%]	100.0 [%]

9.2.4 î ¡ Aq

P 21	A02 ₴	₣	A02 ₴ ₣ (P6.14 ч [13] ų)	0.0˙ 100.0 [%]	0 [%]
P6.22	A02		A01 Â ₣ ų Ї Ш ҳ Ї ˫ ą Â ų ↕ Ψ ₣ ų ; Й ˫ p ǯ Ψ Ї Â	0.0˙ 1000.0 [ms]	10.0 [ms]

7-1 ₣

ų	O	
0	₣	ү ۱ ъ ₣
1	ү ۱ ъ ۱	ү ۱ ъ ₣ ۱
2	₣ w	₣ w
3	۱	۱ (№ ₣)
4		° ҫ (150 Ņ № ₣)
5	DP	Profibus
6	ă	ү ă P6.7 P6.21 ų ₣
7	ض	; β Ð ; ų ₣

9.2.5 Ğ ă P7

w	O		ҳ	ų
P7.00	۱ ъ ۱ ų	۱ ъ ۱ ۱	600˙ 820 [V]	800 [V]
P7.01	۱ ъ ۱ ų	۱ ъ ۱ ۱	300˙ 500 [V]	350 [V]
P7.02	ъ ۱ ų	ъ ۱ ă "		

ǎ

9.2.6 Ø¬ L P8

w	O		ж	ų
P8.00	Ø¬	[0] ~ [1] ƀ [2]Dp [3]MODBUS [4]Ḡ	0˙ 4	1
P8.01	L	[0]IO [1] ƀ [2]Modbus [3]Dp	0˙ 3	1
P8.02	۱ L	[0]IO [1] ƀ [2]Modbus [3]Dp	0˙ 3	1
P8.03	Å	[0] Å (Ḡ) [1] Å	0˙ 1	1
P8.04	ɒ	[0] [1]AI1 [2]AI2 [3]Modbus [4]Dp	0˙ 4	0
P8.06	ă	0: ɒ P8.04 1: ۱ ʊ	0˙ 1	0
P8.08	۱ ж	۱ Ѝ,	0.0˙ 300.0 [%/s]	5.0 [%/s]
P8.09	ж	˘ w	0.0˙ 300.0 [%/s]	5.0 [%/s]
P8.11	L Ø¬	[0] [1]Ø	0˙ 1	1
P8.12	Ø¬ ۱	[0] ۱ ų [1]Ø¬ ۱ ă [2] ĭ ų [3] ᶣ ų 80%	0˙ 3	3
P8.13	Ø¬ ۱	P8.12=1 ˘ Ø¬ ۱ ų P8.13 ų	0˜ 300 [%]	90 [%]
P8.14	ᶎ ĭ Ḥ˜	ᶎ ĭ Ḥ˜	0.01˙ 5.000 [s]	0.1 [s]
P8.15	h ᶎ ĭ Ḥ˜	h ᶎ ĭ Ḥ˜	0.01˙ 5.00 [s]	0.5 [s]
P8.16	h ᶎ ˜	h ᶎ ˜	0.1˙ 6000.0 [s]	1 [s]
P8.17	h ᶎ Ꝑ	h ᶎ Ꝑ	0.1˙ 10.0 [s]	2.5 [s]

ă

		1: Even_8_1_CFG 2: Odd_8_1_CFG 3 None_8_2_CFG 4: Even_8_2_CFG 5: Odd_8_2_CFG		
P32.05			0, 100 [s]	0 [s]

9.2.10 P33

w	O		مخ	۷
P33.0	Profibus ą	[0] [1] ą	0˙ 1	0
P33.1	خي ضر	PLC	1˙ 255	1
P33.2	قمم	[0]PPO 1 [1]PPO 2 [2]PPO 5 [3]GUIDE	0˙ 3	2
P33.3	~ ۷۱ ṗ	۷	0˙ 16	14
P33.4	₹ ۷۱ ṗ	۷	0˙ 16	14
P33.5	˗ ƀ	[0] Å [1] ⁞ Å [2] ᵽ ⁞ Å [3]		

	[W2]	[4] ¦ 10000		
P33.17	[W2]	7-2	0˙ 38	0
P33.18	[W2]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.19	[W3]	7-2	0˙ 38	0
P33.20	[W3]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.21	[W4]	7-2	0˙ 38	1
P33.22	[W4]	[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.23	[W5]	7-2	0˙ 38	18

P33.13

33.13

0

0

800

			[3] ¦ 1000 [4] ¦ 10000		
P33.31	~	[W9]	7-2	0˙ 38	0
P33.32	~ [W9]		[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.33	~	[W10]	7-2	0˙ 38	0
P33.34	~ [W10]		[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.35	~	[W11]	7-2	0˙ 38	0
P33.36	~ [W11]		[0] ¦ 1 [1] ¦ 10 [2] ¦ 100 [3] ¦ 1000 [4] ¦ 10000	0˙ 4	0
P33.37 P33.38	~ [W12]	[W12]	7-2 [0] ¦ 1 [1] ¦ *6	0˙ 38 0˙ 3	0

		[2]¦100 [3]¦1000 [4]¦10000		
P33.45	₮ [W0]	7-3	0˙ 48	0
P33.46	₮ [W0]	[0]¦1 [1]¦10 [2]¦100 [3]¦1000 [4]¦10000 [5][%]¦1 [6][%]¦10 [7][%]¦100	0˙ 7	0
P33.47	₮ [W1]	7-3	0˙ 48	0
P33.48	₮ [W1]	[0]¦1 [1]¦10 [2]¦100 [3]¦1000 [4]¦10000 [5][%]¦1 [6][%]¦10 [7][%]¦100	0˙ 7	0
P33.49	₮ [W2]	7-3	0˙ 48	0
P33.50	₮ [W2]	[0]¦1 [1]¦10 [2]¦100 [3]¦1000 [4]¦10000 [5][%]¦1 [6][%]¦10 [7][%]¦100	0˙ 7	0
P33.51	₮ [W3]	7-3	0˙ 48	0
P33.52	₮ [W3]	[0]¦1 [1]¦10 [2]¦100 [3]¦1000 [4]¦10000 [5][%]¦1 [6][%]¦10 [7][%]¦100	0˙ 7	0
P33.53	₮ [W4]	7-3	0˙ 48	1
P33.54	₮	[0]¦1 [1]¦10	0˙ 7	0

ă

P33.63 [W9] 7-3 0˙ 48 13
[0] ¦ 1

P33.64 [W9]

22	w [Kw]
23	w [%]
24	˜Ḥ [A]
25	[A]
26	[A]
27	₣ 1[%]
28	₣ 2[%]
29	∨ └[%]
30	⋮ └[%]
31	˜Ḥ └ [V]
32	└ [V]
33	∧ ∧ └ [V]
34	∧ ∧ └ [V]
35	∧ ↺˜Ḥ ∧ 1[V]
36	∧ ↺˜Ḥ ∧ 2[V]
37	∧ ↺ ∧ 1[V]
38	∧ ↺ ∧ 2[V]

7-3 ₣

V	
0	
1	0
2	1
3	2
4	3
5	4
6	5
7	ǎ 0 32bit
8	ǎ 1 32bit
9	ǎ 2 32bit
10	ǎ 3 32bit
11	ǎ 4 32bit
12	ǎ 5 32bit
13-16	Ḡ
17	~
18	₣
19	∧
20	∧
21	₣ A
22	∧
23	₣ w Kw
24	A ₣
25	B ₣
26	C ₣
27	₣ A ∧

10. ï

10.1 ɒ ɳ

ض Å ɒ ɳ '

ɒ ɳ	ɒ Ḥ	ɒ ʌ ⁄
WO1	‰ :;: SYS_NOT_RDY (Ready)	⌠ ‰ ~ ʌ˘

ϸ ٩	ϸ Ḥ	ϸ ﾉ ﮜ	
W25	ɾ 5 SLV5_CAN_ERR	˘ ɾ 5	˘ ɾ 5 ᢾ

10.2 ٩

Ӥ ٩ ʽ

٩	Ḥ	
[E050]	U ˆ ҍ˜ ᵦ ˜ ERR_UT not reset	IGBT ᢾ IGBT ˩ ῗ ˩ ᢾ U ⁛
[E052]	V ˆ ҍ˜ ᵦ ˜ ERR_UT not reset	IGBT ᢾ IGBT ˩ ῗ ˩ ᢾ U ⁛
[E054]	W ˆ ҍ˜ ᵦ ˜ ERR_UT not reset	IGBT ᢾ IGBT ˩ ῗ ˩ ᢾ U ⁛
[E065]	һ ﮃ ℮	һ ﮃ ᢾ һ ﮃ DO Ḥ˜ ᢾ һ ﮃ DO Ḥ˜ ᢾ DCDC ﺠﺸ DO ᾰ ᢾ DCDC ﺠﺸ DI ᾰ ᢾ
[E066]	ﮃ ℮	ﮃ ᢾ ﮃ DO Ḥ ᢾ ﮃ DO Ḥ˜ ᢾ DCDC ﺠﺸ

[E220]	Ũ ᵹ CRC MEMORY CRC ERR	L
[E221]	ᾰ PARAMETER ERROR	ᾰ ϩ ¨

10.3

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	◌h ๙ Ղ ₽	◌ DO ⌠ h ๙
	◌ ˜ Ղ №	◌ ˜ №
	◌ Ꭶ Ḥ Ղ Ꮧ ON	◌ Ꭶ Ḥ Ꮧ ON
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٧ ⏋ ʊ ₮	◌ ⏋ Ղ	◌

11. ƀ Ḡ Ī

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1. ˜ ᴰ˧ ᵒᵒ ج

11.2

ҸꝚ D˩ ᵜ ټ Ṻ ˘ Ḡ ˘ D˩ ᵜ ټ ą ث˘
D˩ ᵜ ټ ˘ ṗ Ӎ ʻ

	ṗ	∞≢ ‰
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ʻ Ꮧ	1. 2. D˩ ᵜ ټ r	1. ˘ 2. r ˘ ݣ
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˜ ầ ₮ ᾰ̋	1. ˜ Ꮧ 2. ₮	1. ˜ Ꮧ ۻ ݦ ṗ 2. ₮ ۻ ṿ ˠ Ӎ

11.3

ҸꝚ DC-DCᵜ ټ Ṻ ˘ Ḡ ỉ ˘ ˆ ᒉ
ˠ ṗ˜ ᵜ ټ ˘ ṗ Ӎ ʻ

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	᥅ ḯ ầ ء	
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ˇ È˜

HF680N

DC-DC

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