EV4000

V3.2

银河电气
YINHE ELECTRIC

1

EV4000

/

±1500V ±1000A

1500Vrms 707A ±10V

400kHz 10Vp

GB/T 16318-1996

GB/T 29307-2012

GB/T 18488.2-2015 2

IEC61010-1/

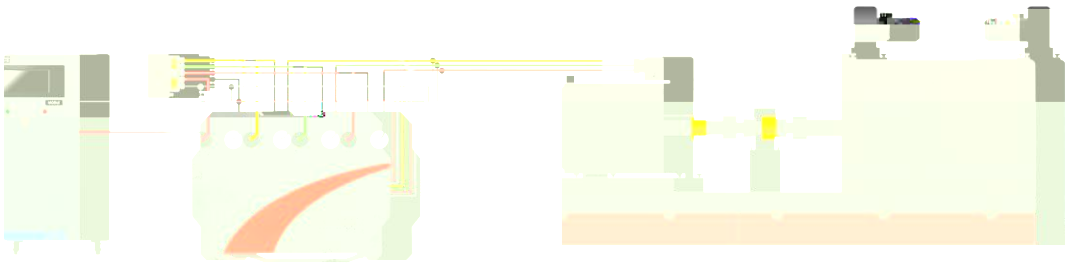
1 JJF1559-2016

1 PC 1 3

1 1

2

EV4000



DC

A B C

DC

DC

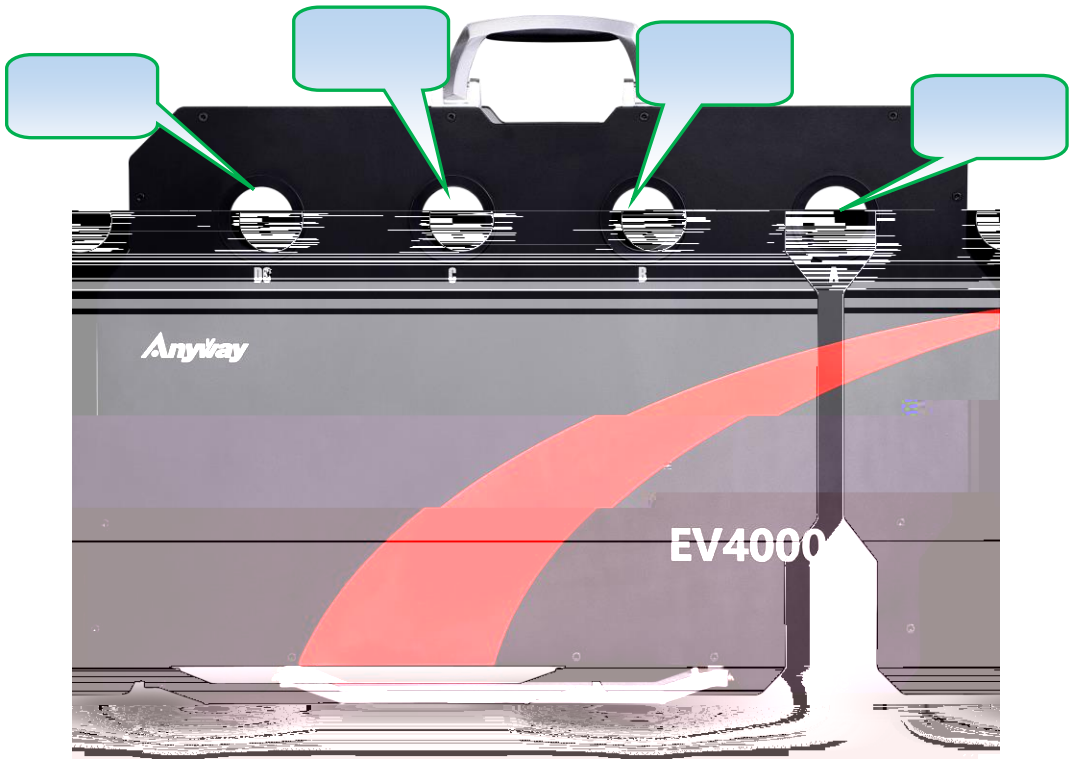
3

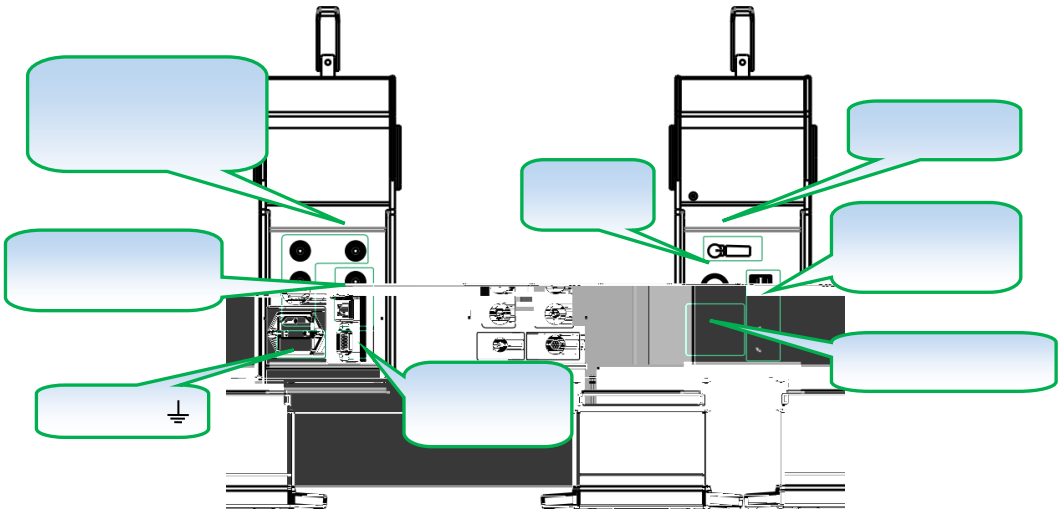
0.05

1

4

EV4000 DC





5

5.1

- CPU Intel I3
- DDRIII 4G
- 2G
-
- SSD

5.2

- IIS7.0 Win7 SP1 32 64 Win10 64
- Framework 4.5.2 VC++2015

6

-
- 13
- 13
-
-

6.1 EVWEB

EVWEB

EVWEB

6.2

6.1.1

U1		U2	
I1		I2	
P1		P2	
Uab	A B	Ia	A
Ubc	B C	Ib	B
Uca	C A	Ic	C

Pa	A	F	
Pb	B		
Pc	C	PF	
T		Eu	
N		Ei	
P3		Ep	

	U1 I1	avg	
		rms	
	P1	avg	
	U2 I2 Uab Ubc Uca Ia Ib Ic	rms	
		h01	
		mean	
		avg	
	P2	h01	
		avg	

6.1. 2

DC/C/B/A  EV4000 

EV4000

6.3

EV4000

6.4

csv

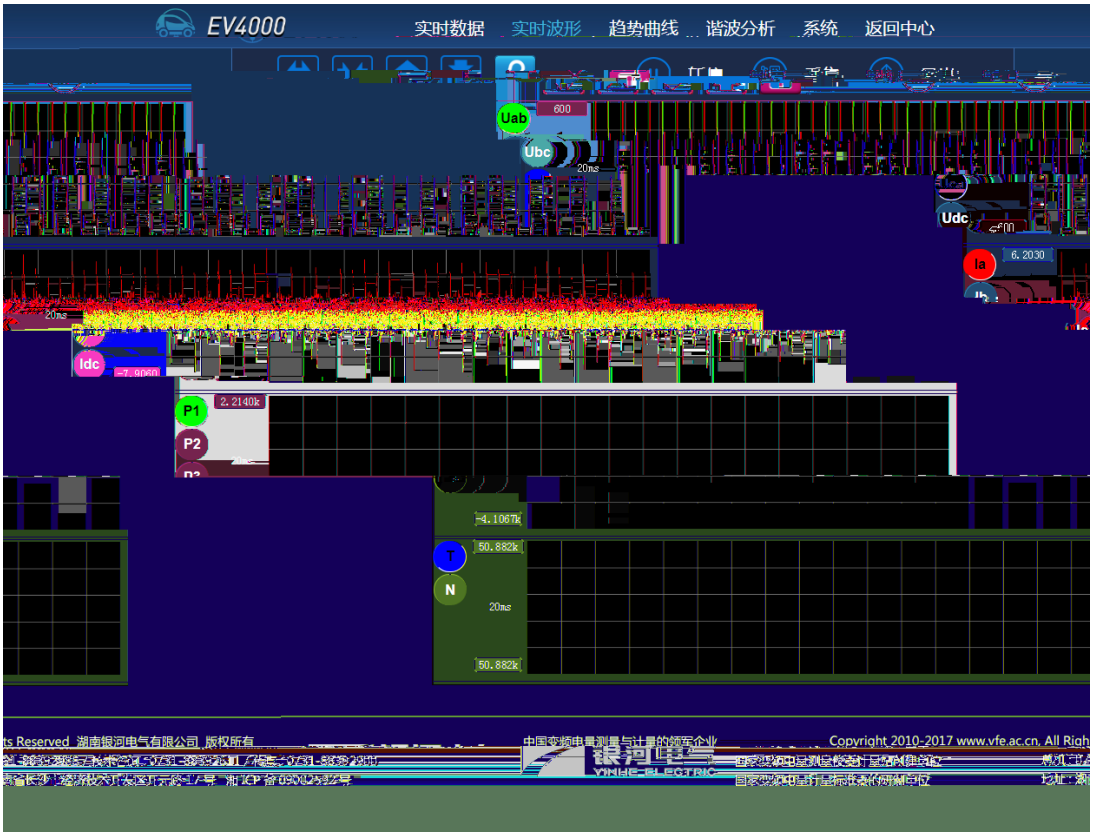
csv 200ms

6.5


EV4000


EV4000

6.6



6.6.1

Uab /

6.6.2

Y

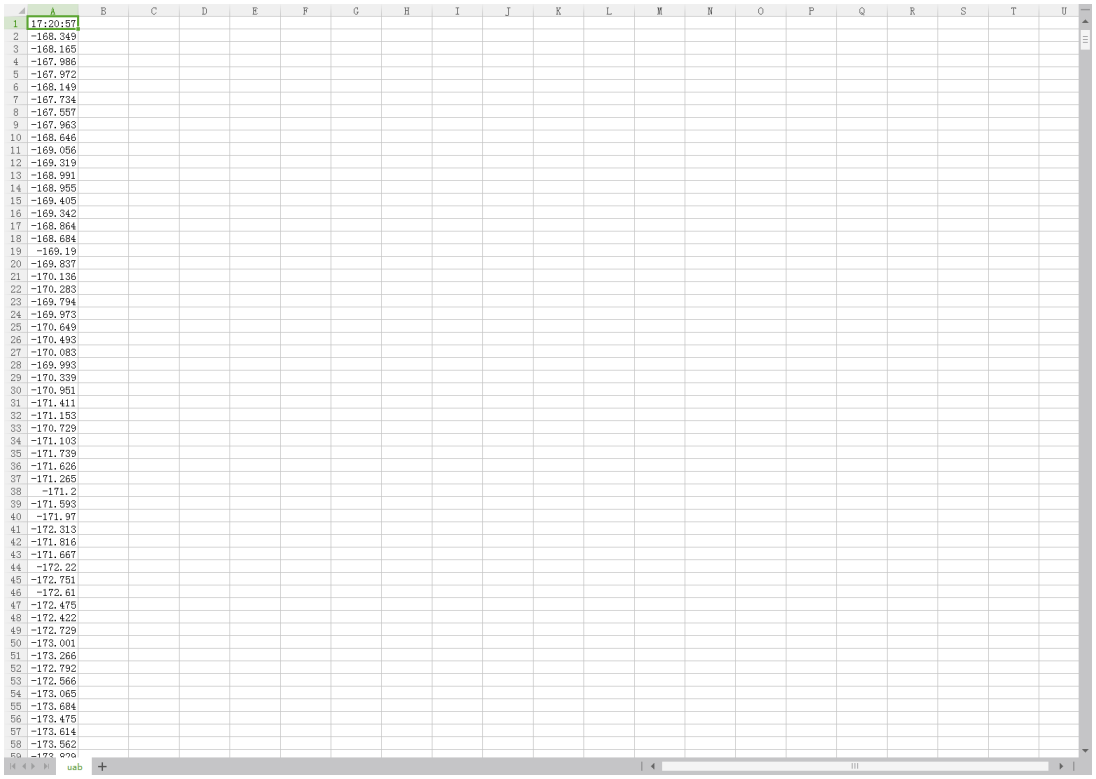
Y

6.6.3 X

50ms/ X 20 1 ;

X X

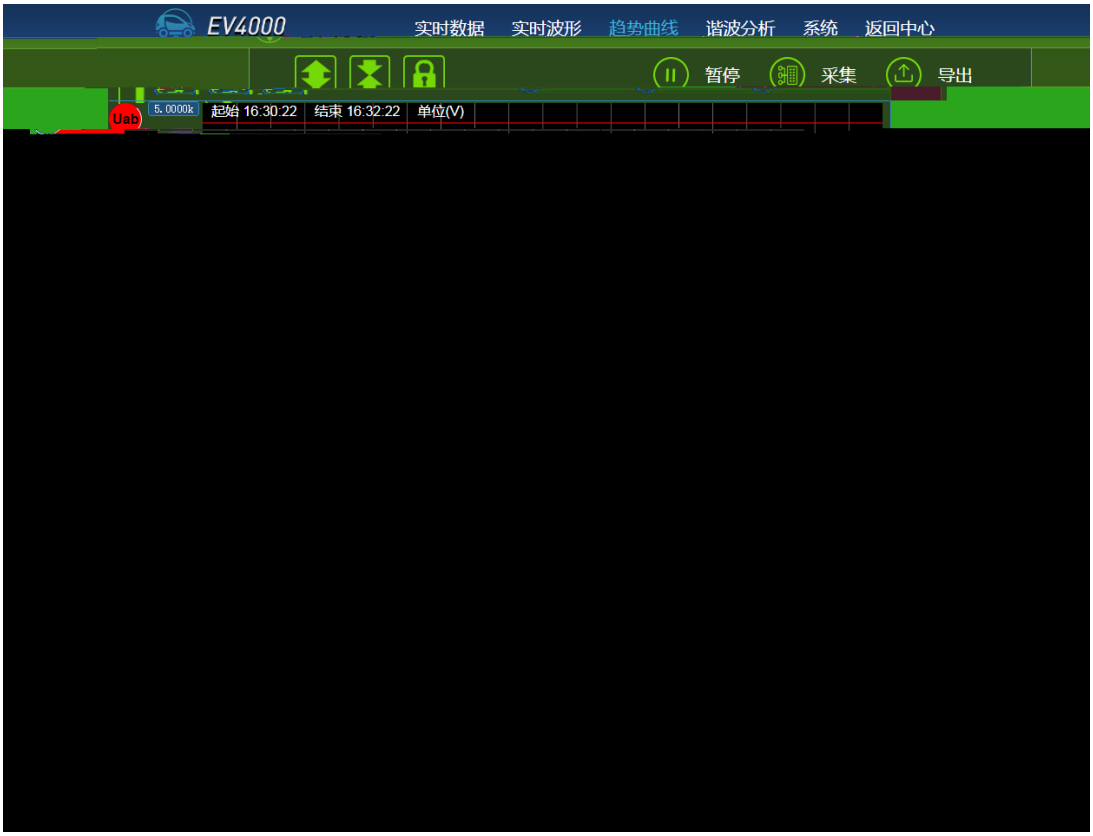
6.6.4



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	17:20:57																				
2	-168.349																				
3	-168.165																				
4	-167.986																				
5	-167.972																				
6	-168.149																				
7	-167.734																				
8	-167.557																				
9	-167.963																				
10	-168.646																				
11	-169.056																				
12	-169.319																				
13	-168.991																				
14	-168.955																				
15	-169.405																				
16	-169.342																				
17	-168.864																				
18	-168.684																				
19	-169.19																				
20	-169.837																				
21	-170.136																				
22	-170.283																				
23	-169.794																				
24	-169.973																				
25	-170.649																				
26	-170.493																				
27	-170.083																				
28	-169.993																				
29	-170.339																				
30	-170.951																				
31	-171.411																				
32	-171.153																				
33	-170.729																				
34	-171.103																				
35	-171.739																				
36	-171.626																				
37	-171.265																				
38	-171.2																				
39	-171.593																				
40	-171.97																				
41	-172.313																				
42	-171.816																				
43	-171.667																				
44	-172.22																				
45	-172.751																				
46	-172.61																				
47	-172.475																				
48	-172.422																				
49	-172.729																				
50	-173.001																				
51	-173.266																				
52	-172.792																				
53	-172.566																				
54	-173.065																				
55	-173.684																				
56	-173.475																				
57	-173.614																				
58	-173.562																				

uab

6.7



- - ,P1/P2/P3/T/N AVG

6.7.1

Uab /

6.7.2 

Y

Y

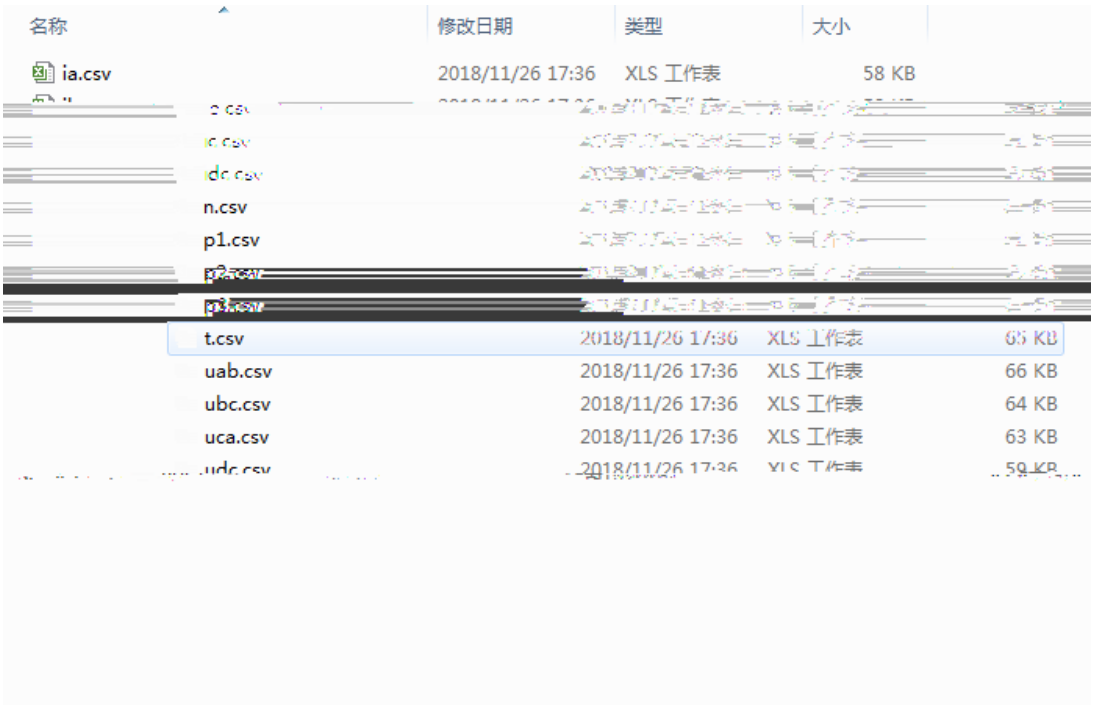
6.7.3 -

6.7.4

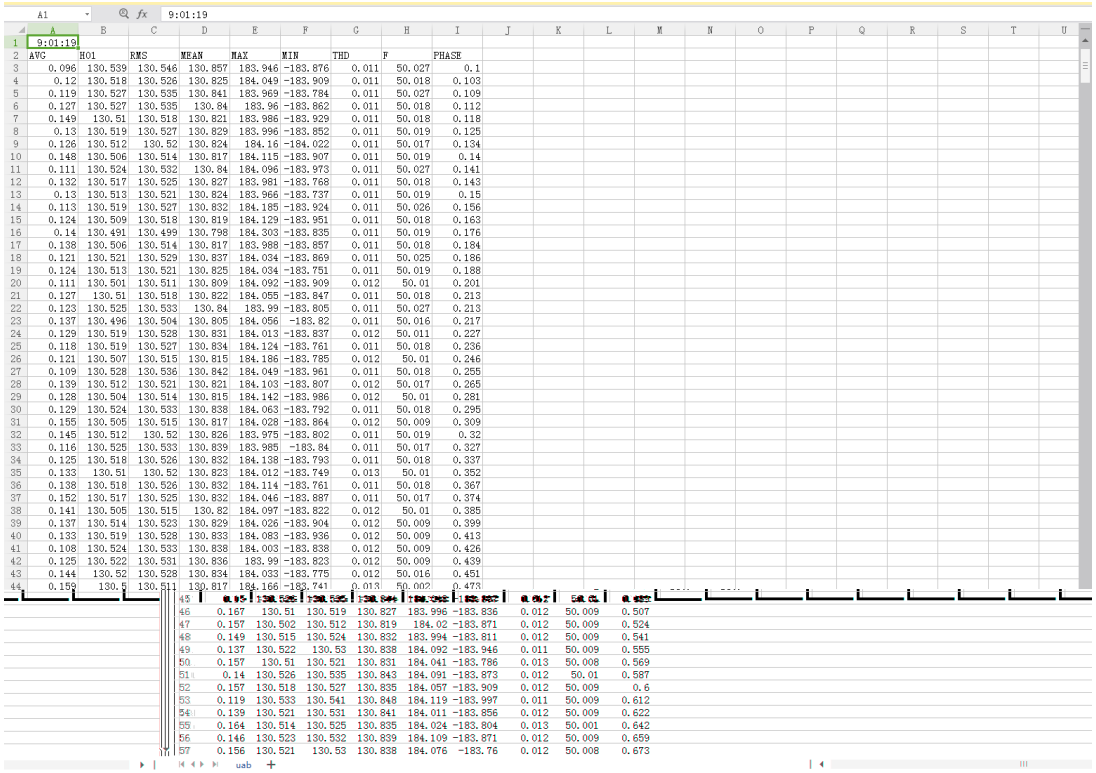
6.7.5

DAT

csv



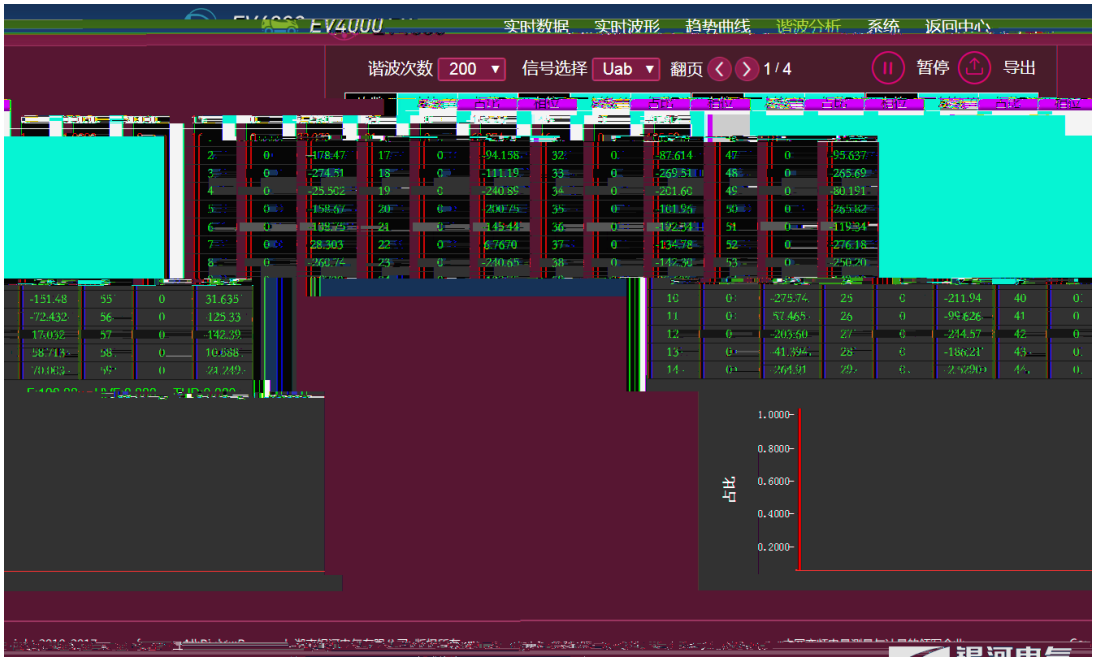
Uab.csv



	A	B	C	D	E	F	G	H	I
1	9:01:19								
2	AVG	H01	RMS	MEAN	MAX	MIN	THD	F	PHASE
3	0.096	130.539	130.546	130.857	183.946	-183.876	0.011	50.027	0.1
4	0.12	130.518	130.526	130.825	184.049	-183.909	0.011	50.018	0.103
5	0.119	130.527	130.535	130.841	183.969	-183.784	0.011	50.027	0.109
6	0.127	130.527	130.535	130.84	183.96	-183.862	0.011	50.018	0.112
7	0.149	130.51	130.518	130.821	183.986	-183.929	0.011	50.018	0.118
8	0.13	130.519	130.527	130.829	183.996	-183.852	0.011	50.019	0.125
9	0.126	130.512	130.52	130.824	184.16	-184.022	0.011	50.017	0.134
10	0.148	130.506	130.514	130.817	184.115	-183.907	0.011	50.019	0.14
11	0.111	130.524	130.532	130.84	184.096	-183.973	0.011	50.027	0.141
12	0.132	130.517	130.525	130.827	183.981	-183.768	0.011	50.018	0.143
13	0.13	130.513	130.521	130.824	183.966	-183.737	0.011	50.019	0.15
14	0.113	130.519	130.527	130.832	184.185	-183.924	0.011	50.026	0.156
15	0.124	130.509	130.518	130.819	184.129	-183.951	0.011	50.018	0.163
16	0.14	130.491	130.499	130.798	184.303	-183.835	0.011	50.019	0.176
17	0.138	130.506	130.514	130.817	183.988	-183.857	0.011	50.018	0.184
18	0.121	130.521	130.529	130.837	184.034	-183.869	0.011	50.025	0.186
19	0.124	130.513	130.521	130.825	184.034	-183.751	0.011	50.019	0.188
20	0.111	130.501	130.511	130.809	184.092	-183.909	0.012	50.01	0.201
21	0.127	130.51	130.518	130.822	184.055	-183.847	0.011	50.018	0.213
22	0.123	130.525	130.533	130.84	183.99	-183.805	0.011	50.027	0.213
23	0.137	130.496	130.504	130.805	184.056	-183.82	0.011	50.016	0.217
24	0.129	130.519	130.528	130.831	184.013	-183.837	0.012	50.011	0.227
25	0.118	130.519	130.527	130.834	184.124	-183.761	0.011	50.018	0.236
26	0.121	130.507	130.515	130.815	184.186	-183.795	0.012	50.01	0.246
27	0.109	130.528	130.536	130.842	184.049	-183.961	0.011	50.018	0.255
28	0.139	130.512	130.521	130.821	184.103	-183.807	0.012	50.017	0.265
29	0.128	130.504	130.514	130.815	184.142	-183.986	0.012	50.01	0.281
30	0.129	130.524	130.533	130.838	184.063	-183.792	0.011	50.018	0.295
31	0.155	130.505	130.515	130.817	184.028	-183.864	0.012	50.009	0.309
32	0.145	130.512	130.52	130.826	183.975	-183.802	0.011	50.019	0.32
33	0.116	130.525	130.533	130.839	183.985	-183.84	0.011	50.017	0.327
34	0.125	130.518	130.526	130.832	184.138	-183.793	0.011	50.018	0.337
35	0.133	130.51	130.52	130.823	184.012	-183.749	0.013	50.01	0.352
36	0.138	130.518	130.526	130.832	184.114	-183.761	0.011	50.018	0.367
37	0.152	130.517	130.525	130.832	184.046	-183.887	0.011	50.017	0.374
38	0.141	130.505	130.515	130.82	184.097	-183.822	0.012	50.01	0.385
39	0.137	130.514	130.523	130.829	184.026	-183.904	0.012	50.009	0.399
40	0.133	130.519	130.528	130.833	184.083	-183.936	0.012	50.009	0.413
41	0.108	130.524	130.533	130.838	184.003	-183.838	0.012	50.009	0.426
42	0.125	130.522	130.531	130.836	183.99	-183.823	0.012	50.009	0.439
43	0.144	130.52	130.528	130.834	184.033	-183.775	0.012	50.016	0.451
44	0.159	130.6	130.611	130.817	184.166	-183.741	0.013	50.002	0.473
45	[illegible]								
46	0.167	130.51	130.519	130.827	183.996	-183.836	0.012	50.009	0.507
47	0.157	130.502	130.512	130.819	184.02	-183.871	0.012	50.009	0.524
48	0.149	130.515	130.524	130.832	183.994	-183.811	0.012	50.009	0.541
49	0.137	130.522	130.53	130.838	184.092	-183.946	0.011	50.009	0.555
50	0.157	130.51	130.521	130.831	184.041	-183.786	0.013	50.008	0.569
51	0.14	130.526	130.535	130.843	184.091	-183.873	0.012	50.01	0.587
52	0.157	130.518	130.527	130.835	184.057	-183.909	0.012	50.009	0.6
53	0.119	130.533	130.541	130.848	184.119	-183.997	0.011	50.009	0.612
54	0.139	130.521	130.531	130.841	184.011	-183.856	0.012	50.009	0.622
55	0.164	130.514	130.525	130.835	184.024	-183.804	0.013	50.001	0.642
56	0.146	130.523	130.532	130.839	184.109	-183.871	0.012	50.009	0.659
57	0.156	130.521	130.53	130.838	184.076	-183.76	0.012	50.008	0.673

6.8

FFT FFT



6.8.1

6 100 200 500 1000 1500 2000

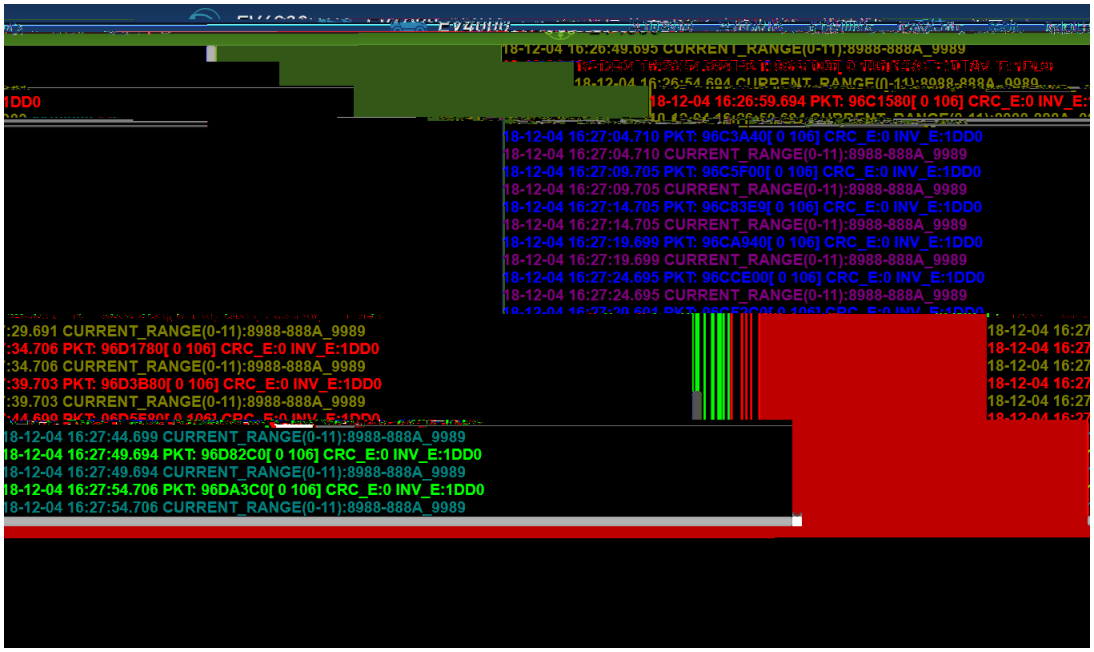
6.8.2

6.8.3 < >

100

6.9

6.9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18-12-04 16:27:04.710 PKT: 96C3A40[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:04.710 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:09.705 PKT: 96C5F00[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:09.705 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:14.705 PKT: 96C83E9[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:14.705 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:19.699 PKT: 96CA940[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:19.699 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:24.695 PKT: 96CCE00[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:24.695 CURRENT_RANGE(0-11):8988-888A_9989
:29.691 CURRENT_RANGE(0-11):8988-888A_9989
:34.706 PKT: 96D1780[0 106] CRC_E:0 INV_E:1DD0
:34.706 CURRENT_RANGE(0-11):8988-888A_9989
:39.703 PKT: 96D3B80[0 106] CRC_E:0 INV_E:1DD0
:39.703 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:44.699 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:49.694 PKT: 96D82C0[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:49.694 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27:54.706 PKT: 96DA3C0[0 106] CRC_E:0 INV_E:1DD0
18-12-04 16:27:54.706 CURRENT_RANGE(0-11):8988-888A_9989
18-12-04 16:27
18-12-04 16:27
18-12-04 16:27
18-12-04 16:27
18-12-04 16:27

6.9.2

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EV4000
实时数据
实时波形
趋势曲线
谐波分析
系统
返回中心
常规设置
趋势选择
采集设置
录制设置
应用
同步源 Uab
刷新周期/ms 100
采样率 200K
频率滤波器截止频率 1000
频率上限制 500HZ
频率下限制 2.000HZ
转速变比 100
转速零点 0
扭矩变比 100
扭矩零点 0
特征值广播端口 8888
滤波设置 Uab Ubc Uca Ia Ib Ic
转速模式 模拟量 脉冲量
扭矩模式 模拟量 脉冲量
扭矩分频 16分频
银河电气 YINHE ELECTRIC
中国变频电量质量与计量的领军企业
国家变频电量质量仪器计量站创建单位
国家变频电量计量标准器的研制单位
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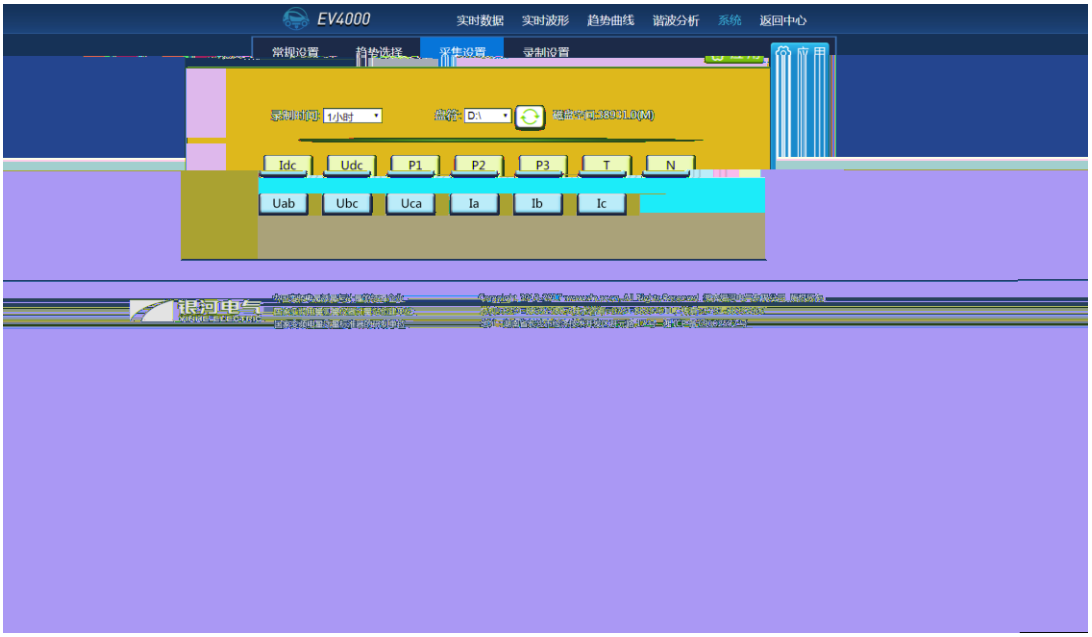
总机：0731-88392988 / 技术咨询：0731-88392611 / 传真：0731-88392900
地址：湖南省长沙市经济技术开发区开元路17号 湘ICP备09002592号


EV4000
实时数据
实时波形
趋势曲线
谐波分析
系统
返回中心
常规设置
趋势选择
采集设置
录制设置
应用
Udc:
AVG
RMS
Idc:
AVG
RMS
U2(包含Uab,Ubc,Uca):
AVG
H01
RMS
MEAN

：


EV4000
实时数据
实时波形
趋势曲线
谐波分析
系统
返回中心
常规设置
趋势选择
采集设置
录制设置
应用
1小时
D:\
Idc
Udc
P1
P2
P3
T
N
Uab
Ubc
Uca
Ia
Ib
Ic

：

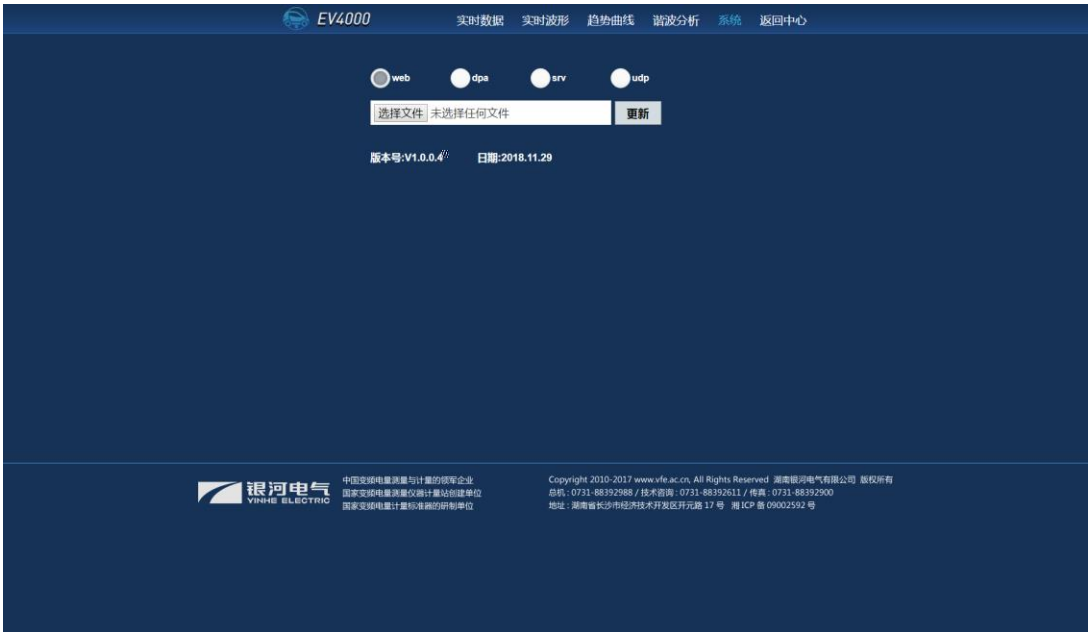

EV4000
实时数据
实时波形
趋势曲线
谐波分析
系统
返回中心
常规设置
趋势选择
采集设置
录制设置
应 用
u1_avg
u1_rms
i1_avg
i1_rms
u2_rms
u2_h01
u2_avg
u2_mean
i2_rms
i2_h01
i2_avg
i2_mean
uab_rms
uab_h01
uab_avg
uab_mean
uab_phase
ubc_rms
ubc_h01
ubc_avg
uca_rms
uca_h01
uca_avg
uca_mean
uca_phase
ia_rms
ia_h01
ia_avg
ia_mean
ia_phase
ib_rms
ib_h01
ib_avg
ib_mean
ib_phase
ic_rms
ic_h01
ic_avg
ic_mean
ic_phase
F
cosφ
T
N
p1_avg
p2_avg
p2_h01
P3
PF
EU
EI
Ep
n1
n2
n3

6.9.3

6.9.4

EV4000

6.9.5



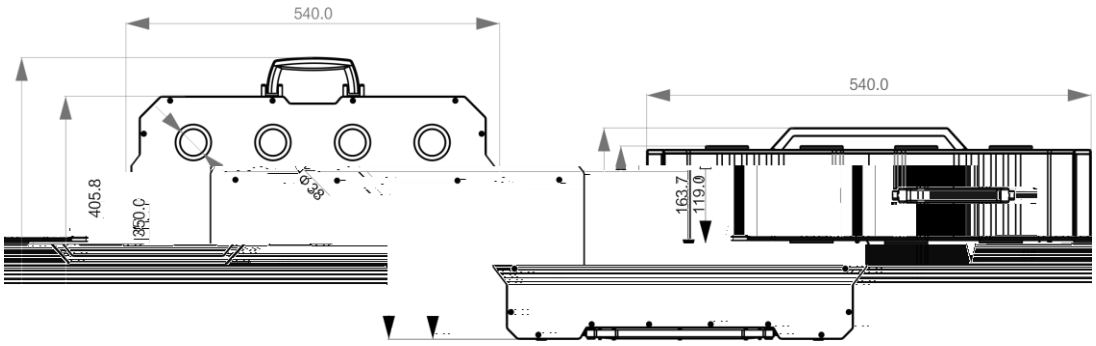
6.10

6.10.1

U1	Avg 7 avg	I1	Avg 12 avg
	rms 7 rms		rms 12 rms
Uab	Avg 17 avg	Ubc	Avg 18 avg
	H01 17 h01		H01 18 h01
	Rms 17 rms		Rms 18 rms
	Mean 17 Mean		Mean 18 Mean
Uca	Avg 19 avg	Ia	Avg 13 avg
	H01 19 h01		H01 13 h01
	Rms 19 rms		Rms 13 rms
	Mean 19 Mean		Mean 13 Mean
Ib	Avg 14 avg	Ic	Avg 15 avg

16	P1	Ch7 * ch6 * A1	U1 * I1
17	Uab	ch1 + ch3 * -1	Ua Ub
18	Ubc	ch3 + ch5 * -1	Ub Uc
19	Uca	ch5 + ch1 * -1	Uc Ua
20	Pa	Ch0* ch1 * Aa	Ia * Ua
21	Pb	Ch2 * ch3 * Ab	Ib * Ub
22	Pc	Ch4 * ch5 * Ac	Ic * Uc
23	P2	Ch0 * ch1 * Aa + ch2 * ch3 * Ab + ch4 * ch5 * Ac	Pa + Pb + Pc
24	T	At *FDIVT*1000000* (1/ ch8) + At*Zt*-1	At*FDIVT*1000000/T_T At*Zt
25	N	An * FDIVN*1000000*(1 /ch9) +An*Zn*-1	An*FDIVN*1000000/T_N-An*Zn
26	P3	Ch24*ch25*KP	T * N * KP

7



8

- -5 60
- 20% 85%

- -20 80

9

9.1

12

1 ,

2

3

4

5

9.2

1

2

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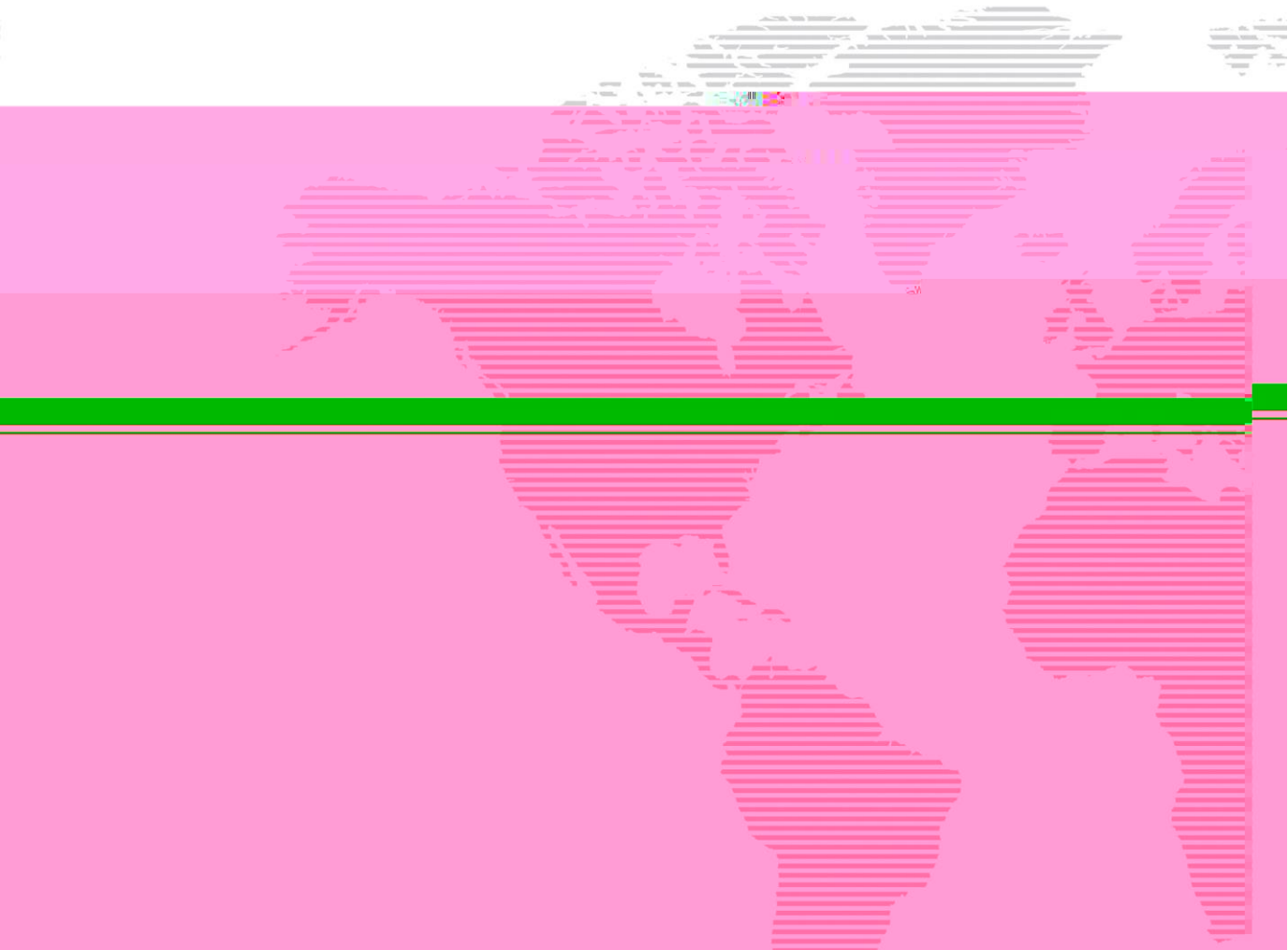
400-673-1028



湖南银河电气有限公司