

## B7. 出力電流モニタについて

### 7.1 用途

PBA300F～PBA1500F(T)において、コネクタCN1またはCN2のCBと-S端子間の電圧を測定することで出力電流をモニターすることができます。

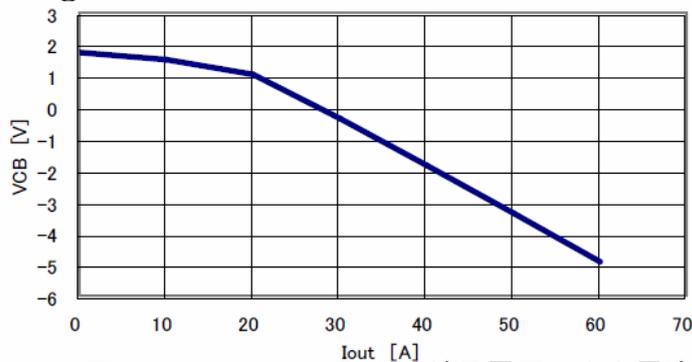
ただし、CB端子電圧の固体差が大きく、定電流制御など精度を要求される用途でのご使用は推奨できません。あくまでも使用上の出力電流(目安)を把握するための機能となります。

### 7.2 CB端子電圧と出力電流の関係(特性データ)

CB端子電圧と出力電流の関係について、各製品の特性データを示します。

#### 【PBA300Fモデル】

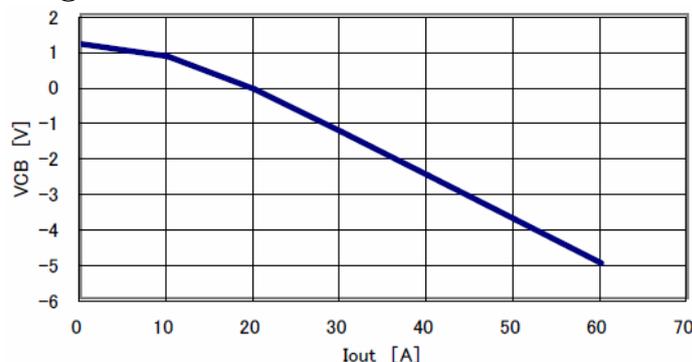
##### ①PBA300F-3R3



I out [A]	Vcb [V]
60.0	-4.916
50.0	-3.374
40.0	-1.857
30.0	-0.371
20.0	1.031
10.0	1.501
0.0	1.725

図7.2.1 PBA300F-3R3 CB端子電圧－出力電流

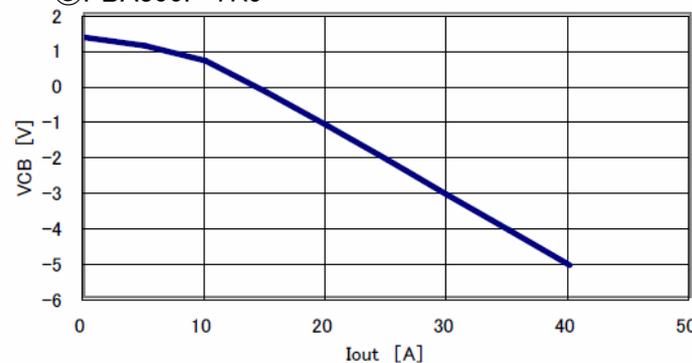
##### ②PBA300F-5



I out [A]	Vcb [V]
60.0	-5.009
50.0	-3.770
40.0	-2.540
30.0	-1.306
20.0	-0.114
10.0	0.808
0.0	1.153

図7.2.2 PBA300F-5 CB端子電圧－出力電流

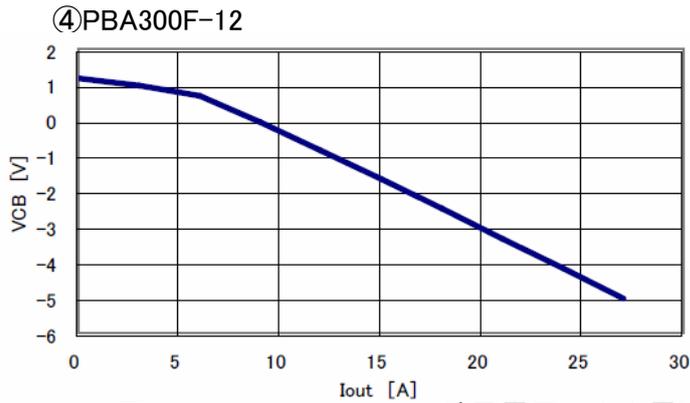
##### ③PBA300F-7R5



I out [A]	Vcb [V]
40.0	-5.092
35.0	-4.109
30.0	-3.133
25.0	-2.133
20.0	-1.165
15.0	-0.227
10.0	0.648
5.0	1.072
0.0	1.310

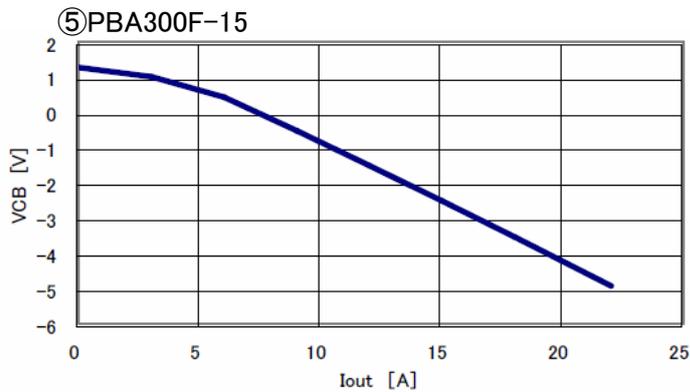
図7.2.3 PBA300F-7R5 CB端子電圧－出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



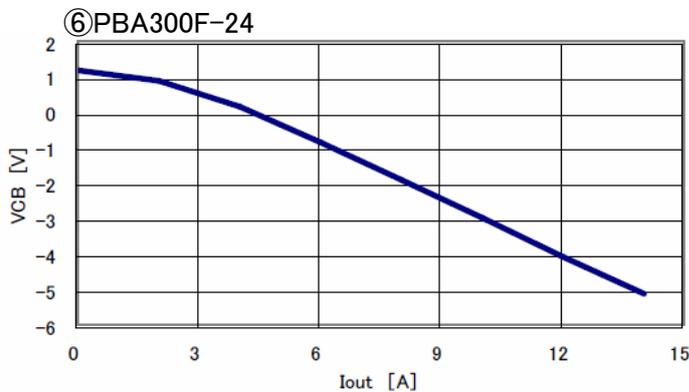
I out [A]	Vcb [V]
27.0	-5.020
24.0	-4.169
21.0	-3.342
18.0	-2.489
15.0	-1.664
12.0	-0.868
9.0	-0.064
6.0	0.668
3.0	0.958
0.0	1.161

図7.2.4 PBA300F-12 CB端子電圧—出力電流



I out [A]	Vcb [V]
22.0	-4.919
18.0	-3.532
15.0	-2.511
12.0	-1.508
9.0	-0.524
6.0	0.421
3.0	1.001
0.0	1.265

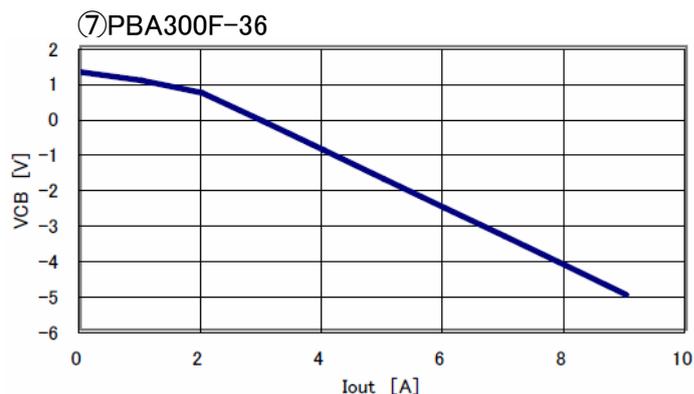
図7.2.5 PBA300F-15 CB端子電圧—出力電流



I out [A]	Vcb [V]
14.0	-5.117
12.0	-4.080
10.0	-2.980
8.0	-1.911
6.0	-0.861
4.0	0.148
2.0	0.870
0.0	1.168

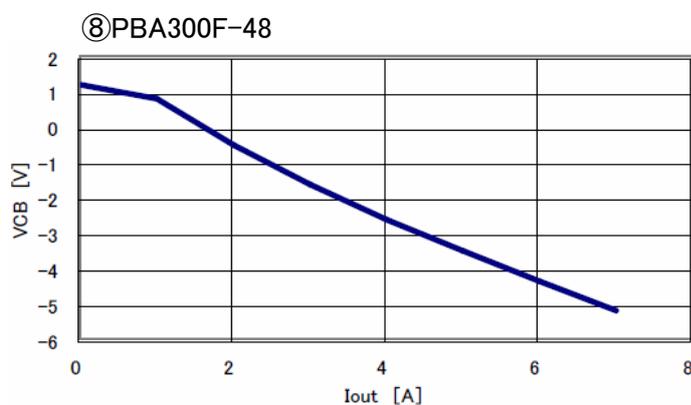
図7.2.6 PBA300F-24 CB端子電圧—出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



I out [A]	Vcb [V]
9.0	-5.010
8.0	-4.180
7.0	-3.365
6.0	-2.558
5.0	-1.747
4.0	-0.925
3.0	-0.116
2.0	0.677
1.0	1.024
0.0	1.265

図7.2.7 PBA300F-36 CB端子電圧－出力電流



I out [A]	Vcb [V]
7.0	-5.190
6.0	-4.362
5.0	-3.506
4.0	-2.624
3.0	-1.629
2.0	-0.520
1.0	0.782
0.0	1.178

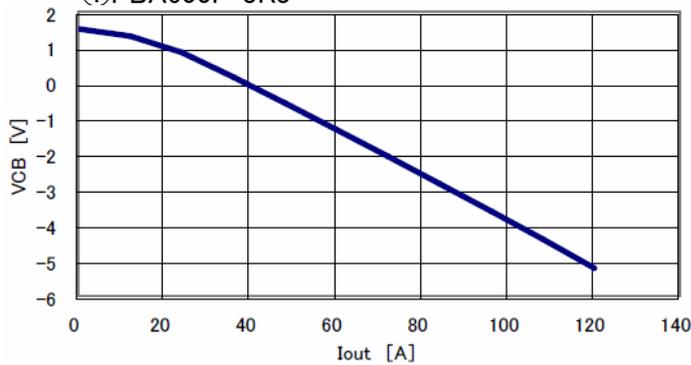
図7.2.7 PBA300F-48 CB端子電圧－出力電流

1サンプルデータ

CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

【PBA600Fモデル】

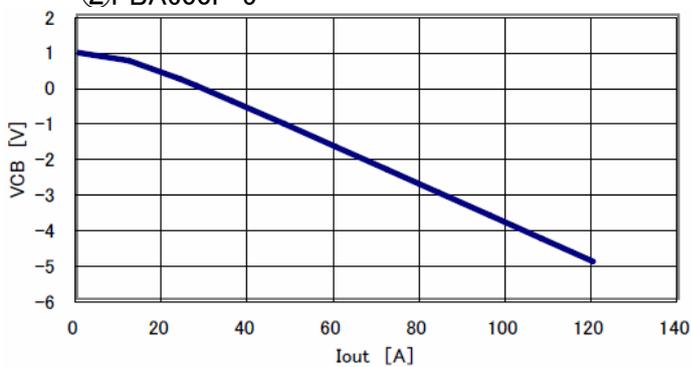
①PBA600F-3R3



I out [A]	Vcb [V]
120.0	-5.206
108.0	-4.394
96.0	-3.614
84.0	-2.841
72.0	-2.073
60.0	-1.319
48.0	-0.578
38.5	0.001
36.0	0.153
24.0	0.848
12.0	1.302
0.0	1.501

図7.3.1 PBA600F-3R3 CB端子電圧－出力電流

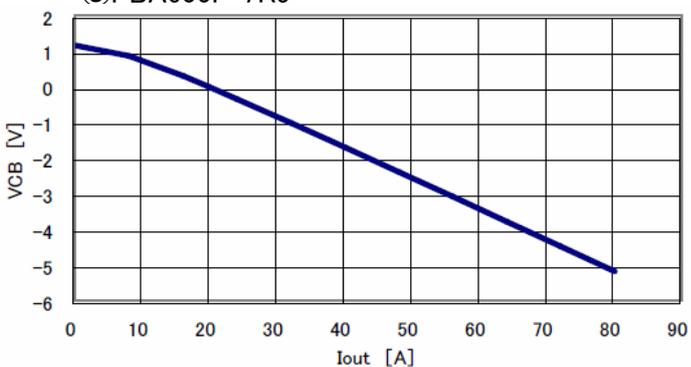
②PBA600F-5



I out [A]	Vcb [V]
120.0	-4.937
108.0	-4.293
96.0	-3.644
84.0	-3.000
72.0	-2.354
60.0	-1.710
48.0	-1.067
36.0	-0.433
27.6	0.000
24.0	0.182
12.0	0.698
0.0	0.928

図7.3.2 PBA600F-5 CB端子電圧－出力電流

③PBA600F-7R5



I out [A]	Vcb [V]
80.0	-5.177
72.0	-4.474
64.0	-3.783
56.0	-3.083
48.0	-2.393
40.0	-1.706
32.0	-1.020
24.0	-0.357
19.7	-0.002
16.0	0.292
8.0	0.849
0.0	1.151

図7.3.3 PBA600F-7R5 CB端子電圧－出力電流

1サンプルデータ

CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

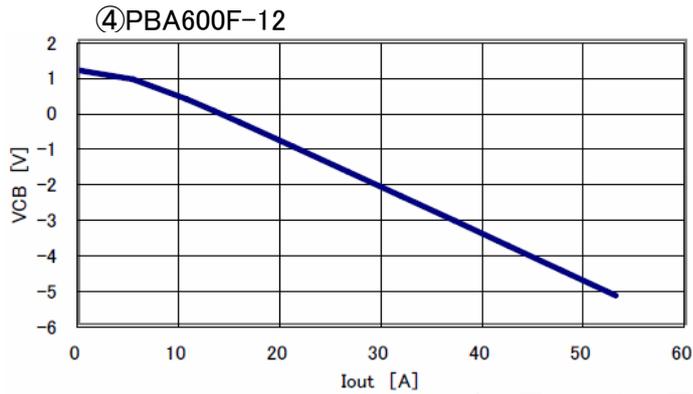


図7.3.4 PBA600F-12 CB端子電圧－出力電流

I out [A]	Vcb [V]
53.0	-5.187
47.7	-4.489
42.4	-3.791
37.1	-3.087
31.8	-2.399
26.5	-1.708
21.2	-1.014
15.9	-0.331
13.3	0.000
10.6	0.329
5.3	0.886
0.0	1.132

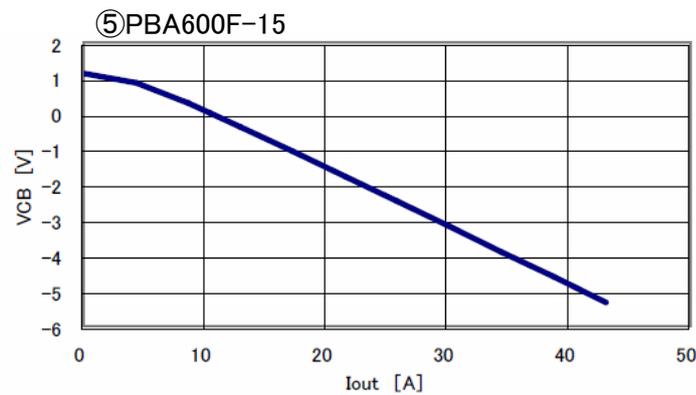


図7.3.5 PBA600F-15 CB端子電圧－出力電流

I out [A]	Vcb [V]
43.0	-5.321
38.7	-4.598
34.4	-3.904
30.1	-3.184
25.8	-2.475
21.5	-1.781
17.2	-1.075
12.9	-0.389
10.4	-0.001
8.6	0.282
4.3	0.855
0.0	1.116

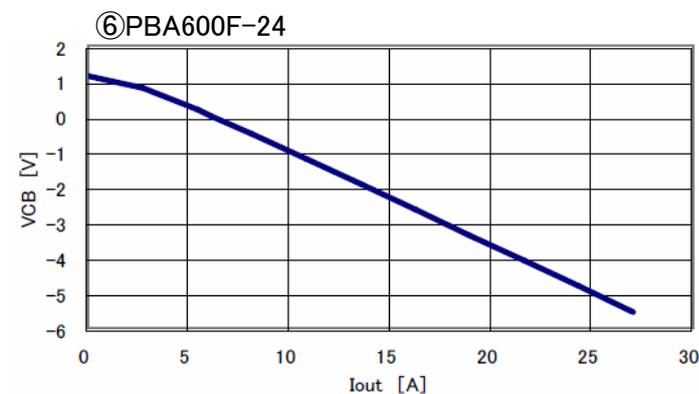
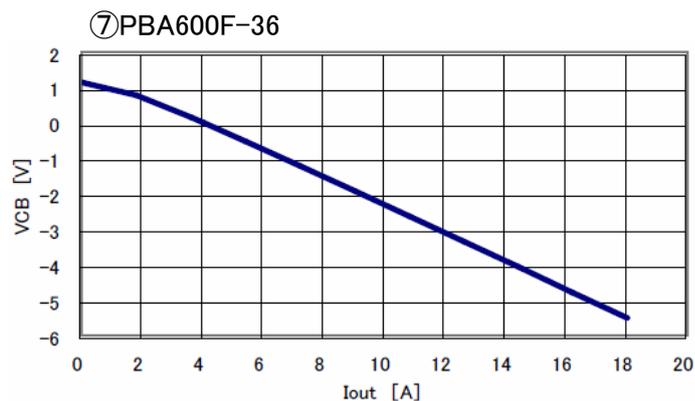


図7.3.6 PBA600F-24 CB端子電圧－出力電流

I out [A]	Vcb [V]
27.0	-5.536
24.3	-4.797
21.6	-4.080
18.9	-3.373
16.2	-2.638
13.5	-1.918
10.8	-1.208
8.1	-0.503
6.1	-0.005
5.4	0.185
2.7	0.795
0.0	1.128

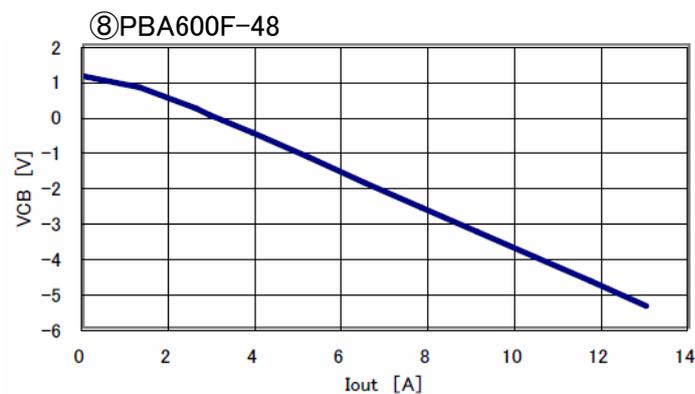
1サンプルデータ

CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



I out [A]	VCB [V]
18.0	-5.494
16.2	-4.787
14.4	-4.057
12.6	-3.345
10.8	-2.632
9.0	-1.920
7.2	-1.217
5.4	-0.523
4.0	0.007
3.6	0.155
1.8	0.771
0.0	1.131

図7.3.7 PBA600F-36 CB端子電圧－出力電流



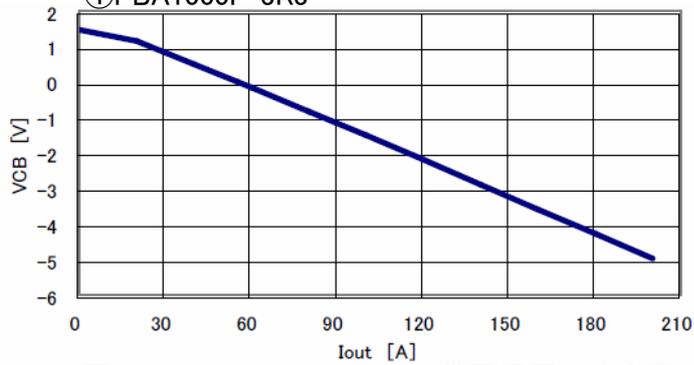
I out [A]	VCB [V]
13.0	-5.385
11.7	-4.673
10.4	-3.985
9.1	-3.295
7.8	-2.602
6.5	-1.911
5.2	-1.190
3.9	-0.495
2.9	0.007
2.6	0.188
1.3	0.780
0.0	1.093

図7.3.8 PBA600F-48 CB端子電圧－出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

【PBA1000Fモデル】

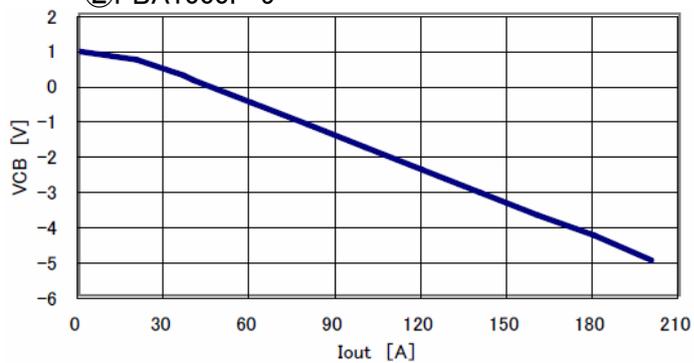
①PBA1000F-3R3



I out [A]	Vcb [V]
200.0	-4.965
180.0	-4.269
160.0	-3.591
140.0	-2.895
120.0	-2.185
100.0	-1.504
80.0	-0.838
60.0	-0.159
55.0	0.000
40.0	0.491
20.0	1.138
0.0	1.456

図7.4.1 PBA1000F-3R3 CB端子電圧－出力電

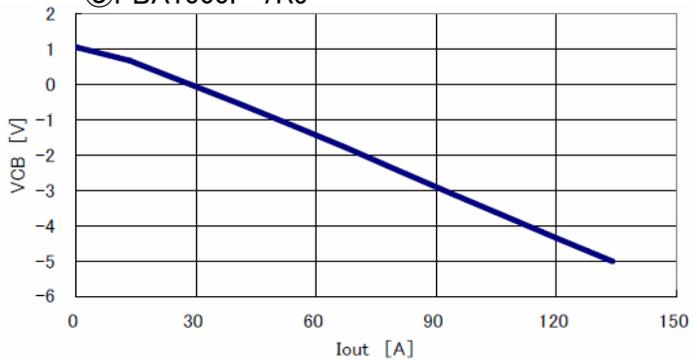
②PBA1000F-5



I out [A]	Vcb [V]
200.0	-4.996
180.0	-4.290
160.0	-3.712
140.0	-3.072
120.0	-2.434
100.0	-1.796
80.0	-1.156
60.0	-0.523
40.0	0.099
36.4	0.242
20.0	0.682
0.0	0.918

図7.4.2 PBA1000F-5 CB端子電圧－出力電流

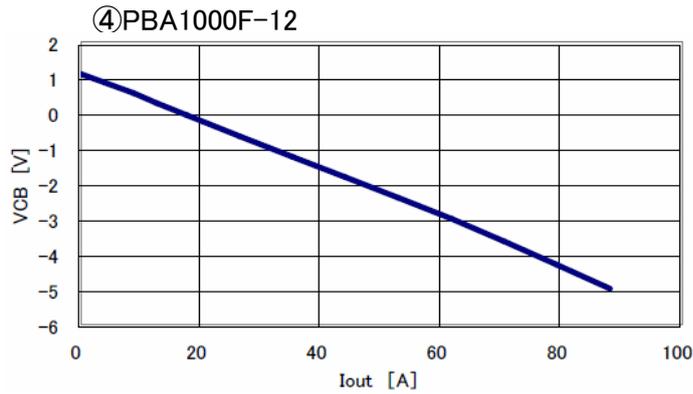
③PBA1000F-7R5



I out [A]	Vcb [V]
134.0	-5.002
120.6	-4.367
107.2	-3.723
93.8	-3.082
80.4	-2.421
67.0	-1.761
53.6	-1.128
40.2	-0.513
28.8	0.000
26.8	0.088
13.4	0.686
0.0	1.068

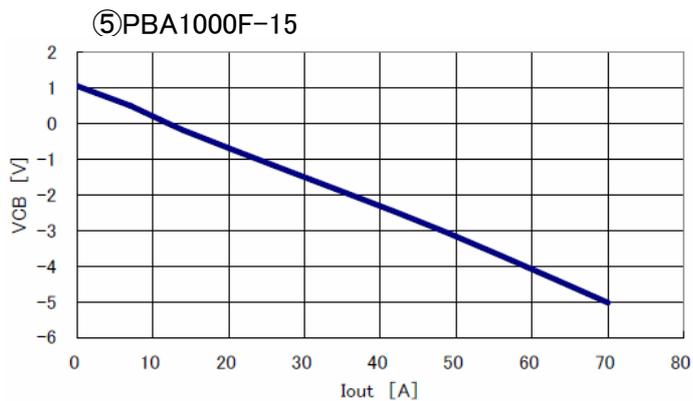
図7.4.3 PBA1000F-7R5 CB端子電圧－出力電

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



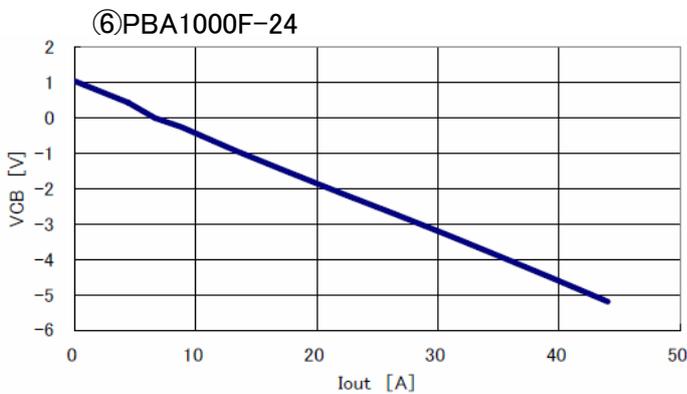
I out [A]	Vcb [V]
88.0	-4.993
79.2	-4.314
70.4	-3.651
61.6	-3.007
52.8	-2.415
44.0	-1.830
35.2	-1.253
26.4	-0.673
17.6	-0.077
12.6	0.271
8.8	0.550
0.0	1.092

図7.4.4 PBA1000F-12 CB端子電圧－出力電流



I out [A]	Vcb [V]
70.0	-5.016
63.0	-4.357
56.0	-3.702
49.0	-3.069
42.0	-2.473
35.0	-1.901
28.0	-1.337
21.0	-0.764
14.0	-0.180
12.1	-0.001
7.0	0.513
0.0	1.059

図7.4.5 PBA1000F-15 CB端子電圧－出力電流



I out [A]	Vcb [V]
44.0	-5.180
39.6	-4.542
35.2	-3.918
30.8	-3.304
26.4	-2.706
22.0	-2.122
17.6	-1.516
13.2	-0.908
8.8	-0.245
6.6	0.006
4.4	0.442
0.0	1.046

図7.4.6 PBA1000F-24 CB端子電圧－出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

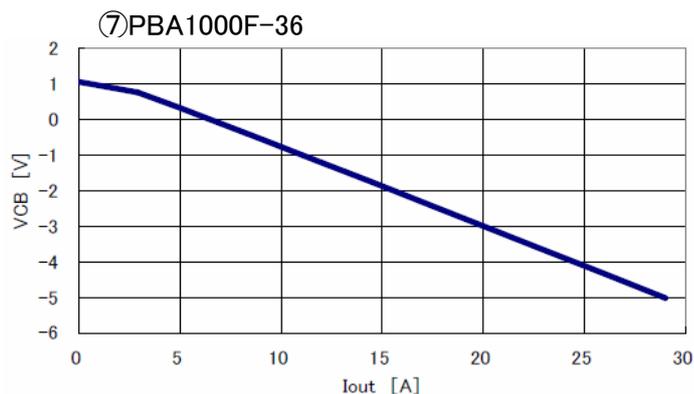


図7.4.7 PBA1000F-36 CB端子電圧－出力電流

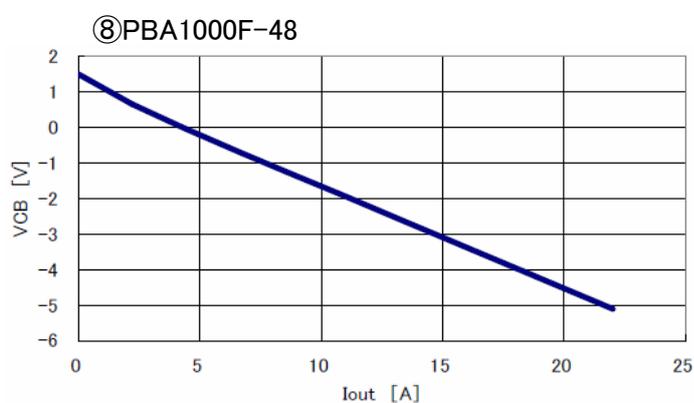
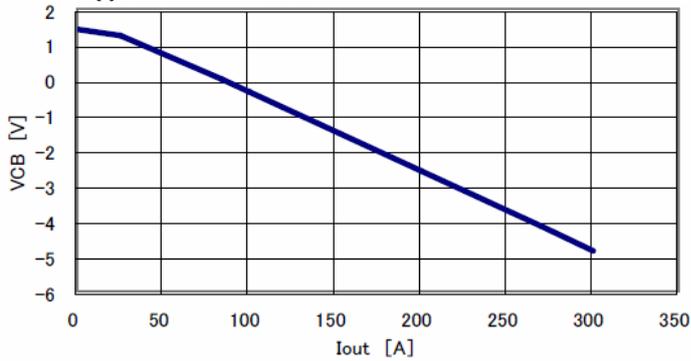


図7.4.8 PBA1000F-48 CB端子電圧－出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

【PBA1500Fモデル】

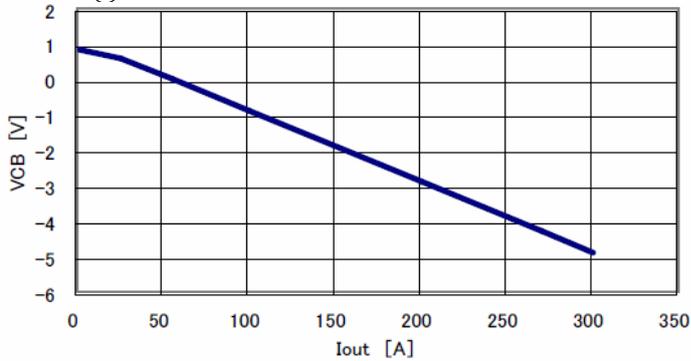
①PBA1500F-3R3



I out [A]	VCB [V]
300.0	-4.843
270.0	-4.152
200.0	-2.591
100.0	-0.356
84.0	0.002
25.0	1.236
0.0	1.409

図7.5.1 PBA1500F-3R3 CB端子電圧－出力電

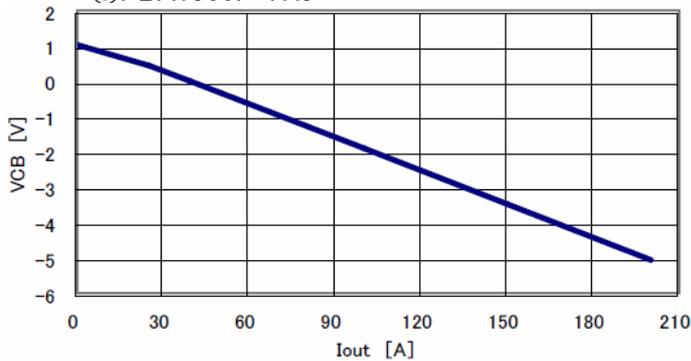
②PBA1500F-5



I out [A]	VCB [V]
300.0	-4.887
270.0	-4.272
200.0	-2.882
100.0	-0.892
55.2	0.004
25.0	0.582
0.0	0.841

図7.5.2 PBA1500F-5 CB端子電圧－出力電

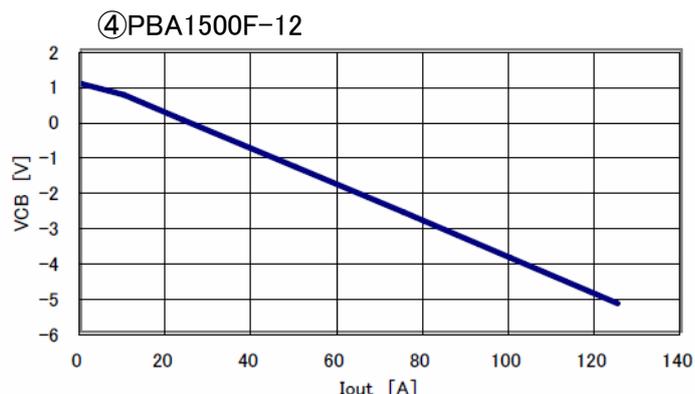
③PBA1500F-7R5



I out [A]	VCB [V]
200.0	-5.057
150.0	-3.481
100.0	-1.906
50.0	-0.341
39.0	0.002
25.0	0.429
0.0	1.011

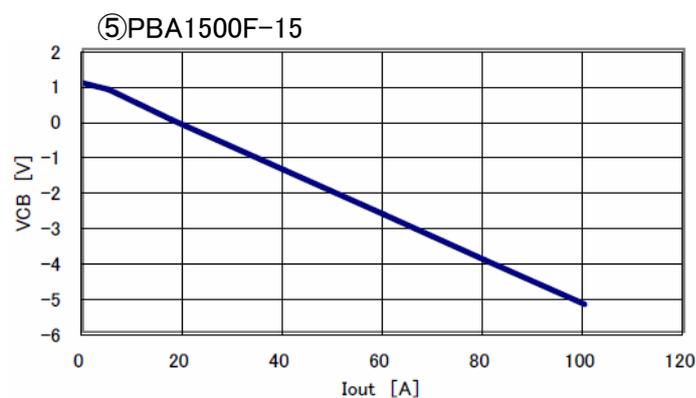
図7.5.3 PBA1500F-7R5 CB端子電圧－出力電

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



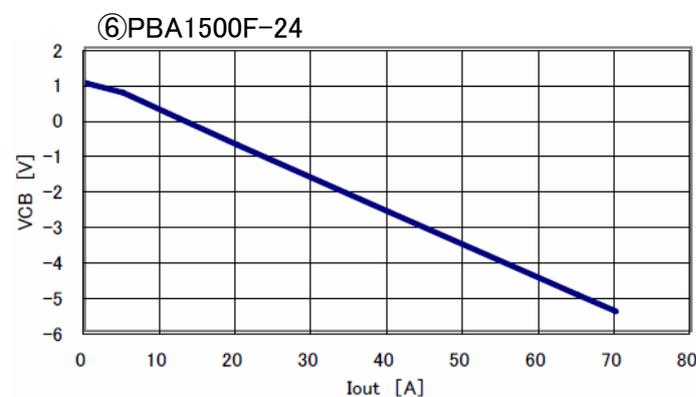
I out [A]	VCB [V]
125.0	-5.185
100.0	-3.896
75.0	-2.604
50.0	-1.335
23.6	0.008
10.0	0.705
0.0	1.018

図7.5.4 PBA1500F-12 CB端子電圧－出力電流



I out [A]	VCB [V]
100.0	-5.207
80.0	-3.956
60.0	-2.678
40.0	-1.416
17.6	0.001
5.1	0.846
0.0	1.030

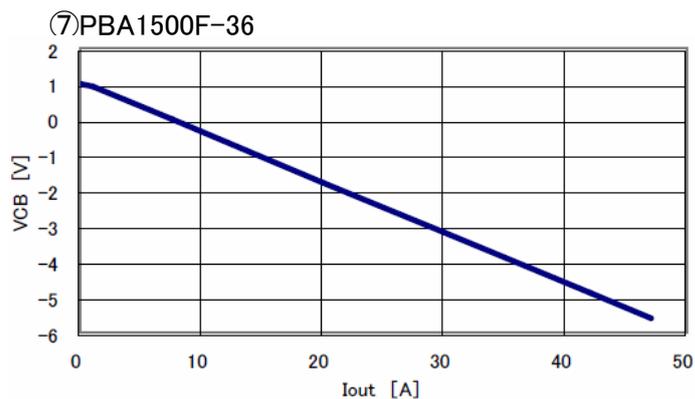
図7.5.5 PBA1500F-15 CB端子電圧－出力電流



I out [A]	VCB [V]
70.0	-5.437
65.0	-4.976
40.0	-2.628
20.0	-0.747
12.4	0.001
5.0	0.719
0.0	0.993

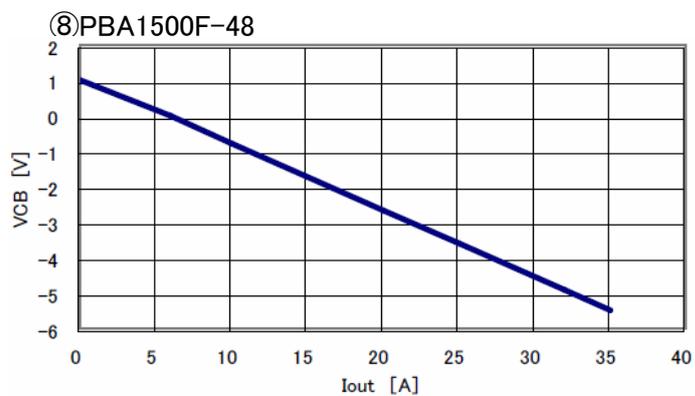
図7.5.6 PBA1500F-24 CB端子電圧－出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください



I out [A]	Vcb [V]
47.0	-5.588
42.0	-4.876
30.0	-3.188
20.0	-1.791
7.5	0.002
1.0	0.915
0.0	0.988

図7.5.7 PBA1500F-36 CB端子電圧—出力電流



I out [A]	Vcb [V]
35.0	-5.476
32.0	-4.908
25.0	-3.590
20.0	-2.667
10.0	-0.785
6.0	0.002
0.0	0.998

図7.5.8 PBA1500F-48 CB端子電圧—出力電流

1サンプルデータ  
CB端子電圧はばらつきが大きく(±10%)、あくまでも目安とお考えください

### 7.3 CB端子電圧を測定する上での注意点

- ①ノイズで誤動作しないように配線にはご注意ください。
- ②入力インピーダンスが500k $\Omega$ 以上の測定器をご使用願います。
- ③故障の原因となりますので端子間を短絡しないでください。

技術お問合せは下記ホットラインまでお願いします

■フリーダイヤル : 0120-52-8151

営業時間9:00~12:00/13:00~17:00(土日祝日を除く)

■E-mail : [apkaihatu@cosel.co.jp](mailto:apkaihatu@cosel.co.jp)