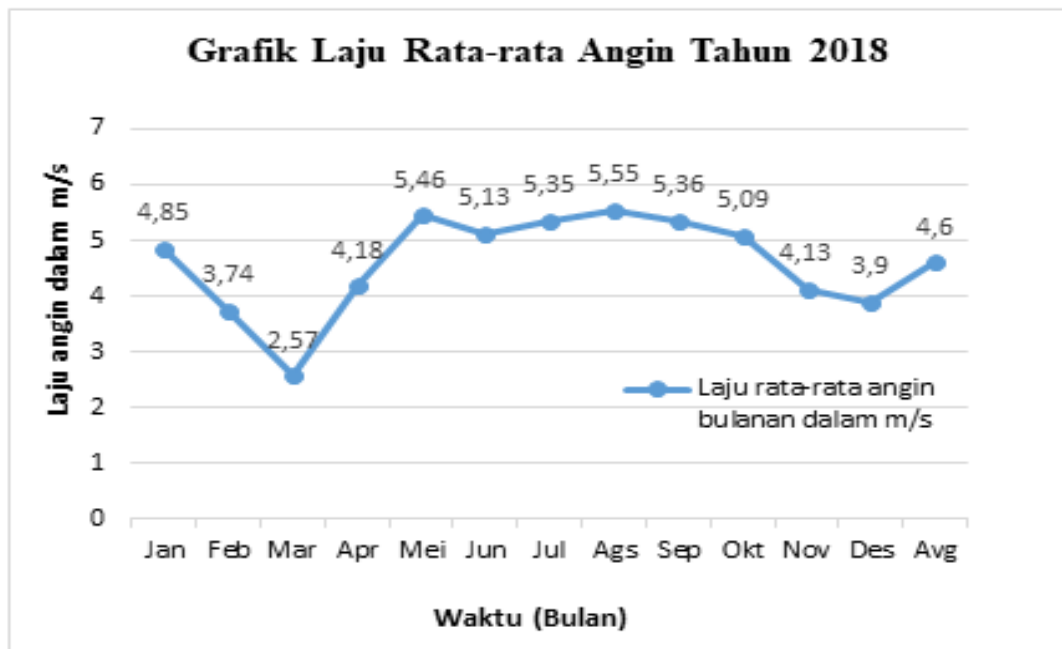


LAMPIRAN

Lampiran 1. Data Geografi Lokasi Penelitian

Bulan	Laju dalam m/s
Januari	4,85
Februari	3,74
Maret	2,57
April	4,18
Mei	5,46
Juni	5,13
Juli	5,35
Agustus	5,55
September	5,36
Oktober	5,09
November	4,13
Desember	3,90



Lampiran 2. Data Kependudukan dan Beban Listrik

1. Data Kependudukan

PEMERINTAH KABUPATEN GUNUNGKIDUL
LAPORAN PERKEMBANGAN KELUARGA DI KABUPATEN GUNUNGKIDUL

KECAMATAN : TEPUS
DESA : TEPUS

Laporan Bulan : Desember 2018

PADUKUHAN	Penduduk akhir bulan yang lalu			Perubahan Penduduk												Penduduk akhir bulan ini		
	L	P	Jumlah	Pecah KK / Baru			Datang			Pindah			Mati			L	P	Jumlah
				L	P	Jumlah	L	P	Jumlah	L	P	Jumlah	L	P	Jumlah			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1 GEMBUK	123	21	144	0	0	0	0	0	0	0	0	0	0	0	0	123	21	144
2 TEGALWERU	134	15	149	0	0	0	0	0	0	0	0	0	0	0	0	134	15	149
3 TROSARI I	70	14	84	0	0	0	0	0	0	0	0	0	0	0	0	70	14	84
4 TROSARI II	71	19	90	0	0	0	0	0	0	0	0	0	0	0	0	71	19	90
5 BLEKONANG I	73	27	100	0	0	0	0	0	0	0	0	0	0	0	0	73	27	100
6 BLEKONANG II	99	18	117	0	0	0	0	0	0	0	0	0	0	0	0	99	18	117
7 BLEKONANG III	60	12	72	0	0	0	0	0	0	0	0	0	0	0	0	60	12	72
8 TEPUS I	71	26	97	0	0	0	0	0	0	0	0	0	0	0	0	71	26	97
9 TEPUS II	90	14	104	0	0	0	0	0	0	0	0	0	0	0	0	90	14	104
10 TEPUS III	88	13	101	0	0	0	0	0	0	0	0	0	0	0	0	88	13	101
11 JERUK	93	6	99	0	0	0	0	0	0	0	0	0	0	0	0	93	6	99
12 SINGKIL	176	19	195	0	0	0	0	0	0	0	0	0	0	0	0	176	19	195
13 NGASEM	140	27	167	0	0	0	0	0	0	0	0	0	0	0	0	140	27	167
14 KLUMPIT	150	14	164	0	0	0	0	0	0	0	0	0	0	0	0	150	14	164
15 WALANGAN	71	11	82	0	0	0	0	0	0	0	0	0	0	0	0	71	11	82
16 KANIGORO	83	8	91	0	0	0	0	0	0	0	0	0	0	0	0	83	8	91
17 DONGSARI	81	16	97	0	0	0	0	0	0	0	0	0	0	0	0	81	16	97
18 PACLUNGAN	95	17	112	0	0	0	0	0	0	0	0	0	0	0	0	95	17	112
19 PUDAK	161	28	189	0	0	0	0	0	0	0	0	0	0	0	0	161	28	189
20 PAKEL	110	15	125	0	0	0	0	0	0	0	0	0	0	0	0	110	15	125
	2039	340	2379	0	0	0	0	0	0	0	0	0	0	0	0	2039	340	2379



2. Beban Listrik

Perangkat	Rumah 1	Rumah 2	Rumah 3	Rumah 4	Rumah 5	Total
Lampu 1 12 w	4	3	3	4	3	3
Lampu 2 10 w	5	5	2	3	5	5
Kipas Angin	1	1	1	1	1	1
TV	1	1	1	1	1	1
Megic jar	1	1	-	1	1	1
Pompa Air	1	1	-	1	1	1
Seterika	1	1	1	1	1	1
Kulkas	1	1	-	1	-	1

Lampiran 3. Data spesifikasi Peralatan

1. Turbin Angin

BERGEY 1.6m EXCEL 6

Performance

- AWEA RATED POWER: 5.5 kW @ 24.8 mph (11 ms)
- PEAK POWER: 6.2 kW
- AWEA ANNUAL ENERGY: 9,920 kWh @ 11 mph (3m/s) Average:
- CUT-IN WIND SPEED: 5.6 mph (2.5 m/s)
- CUT-OUT WIND SPEED: None
- FURLING WIND SPEED: 31-45 mph (14-20 m/s)
- MAX DESIGN WIND SPEED: 124 mph (60 m/s)
- NOMINAL ROTOR SPEED: 0-400 rpm

Mechanical

- TYPE: 3-Blade Upwind, Horizontal Axis
- ROTOR DIAMETER: 20.2 ft. (6.2 m)
- WEIGHT: 773 lb. (350 kg)
- GEARBOX: None
- OVER SPEED PROTECTION: Autofurl[®]
- TEMPERATURE RANGE: -40/ 140° F (-40/60° C)
- TOWERS: Guyed and Non-guyed 80-160 ft. (24-49 m)
- ALTERNATOR: 36 Neo Permanent Magnet
- INVERTER: 6 kW Powersync II (Outdoor Rated NEMA 3R Enclosure)
or 6 kW Power-One
- Remote Monitoring Via Internet and Smartphones (Optional)




Annual Energy Output



Average Wind Speed (mph)*	Yearly Energy Production (kWh)
8	3,388
10	7,290
12	11,388
14	15,718
16	19,880

*Wind speed at hub height

Multiple Inverter Options



2. Baterai

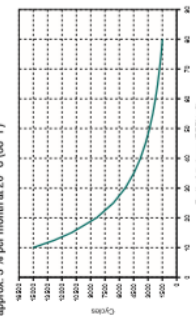
Technical Specification for BAE *Secura PVS solar*



- Design**
 - Positive electrode
 - Negative electrode
 - Separation
 - Electrolyte
 - Container
 - Lid
 - Plugs
 - Pole-bushing
 - Kind of protection
- Installation**

BAE *Secura PVS solar* batteries are designed for indoor applications.
For outdoor applications please contact BAE.

- Maintenance**
 - Every 6 months
 - Every 12 months
 - Every 3 years
- Operational data**
 - Depth of discharge (DOD)
 - Initial charge current (I or bulk phase)
 - Charge voltage at cyclic operation
 - Float voltage during cyclic voltage
 - Adjustment of charge voltage
 - Recharge to 100%
 - IEC 61427 cycles
 - Battery temperature



- Transport**

Batteries are not subject to ADR (road transport), if the conditions of Special Provision 506 (Chapter 3.3) are observed.
These calculations are dangerous goods on sea transport. Declaration and packaging must comply with the requirements of IMDG-Code.
- Standards**
 - Test standards
 - Safety standard, ventilation

BAE Batterien GmbH
Wilhelmshofstraße 69/70
12459 Berlin
Germany

Tel.: +49 (0)30 53001-661
Fax: +49 (0)30 53001-667
E-Mail: info@bae-berlin.de
www.bae-berlin.de

BAE *Secura PVS solar*



- Application**

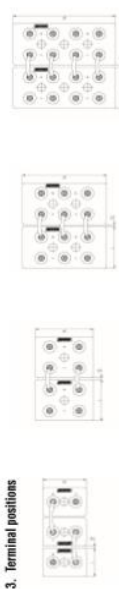
BAE *Secura PVS solar* batteries need only low maintenance and are used to store electric energy in medium and large solar photovoltaic installations.
Due to the robust tubular plate design BAE *PVS solar* batteries are excellent suited for highest requirements regarding cycling ability and long life-time.

2. Technical data (Reference temperature 20 °C)

Type	C ₁₀		C ₂₀		C ₃₀		C ₄₀		C ₅₀		C ₆₀		I _{sc} (A)	I _{max} (A)	I _{max} (W)	Length (l) (mm)	Width (W) (mm)	Height (H) (mm)	Weight (kg)	Weight (kg) filled
	Ah	Wh	Ah	Wh	Ah	Wh	Ah	Wh	Ah	Wh	Ah	Wh								
2 PVS 140	63	111	127	141	143	144	148	152	157	162	167	171	208	105	208	420	208	420	9.1	14.5
3 PVS 210	95	167	191	211	215	217	222	227	232	237	242	246	305	155	305	420	208	420	11.2	16.4
4 PVS 280	127	223	254	282	287	289	295	301	307	313	318	324	395	200	395	420	208	420	12.8	18.0
5 PVS 350	159	279	318	352	359	361	369	377	385	393	401	409	495	250	495	420	208	420	15.3	21.7
6 PVS 420	191	351	392	424	431	434	444	454	464	474	484	494	595	300	595	420	208	420	18.1	25.7
5 PVS 560	273	389	432	486	486	500	513	527	541	555	569	583	708	350	708	535	280	535	28.0	38.8
6 PVS 660	327	467	518	583	586	601	616	631	646	661	676	691	830	410	830	535	280	535	33.5	46.0
7 PVS 770	370	541	604	681	684	700	716	732	748	764	780	796	950	470	950	535	280	535	38.0	52.0
6 PVS 900	352	655	746	856	877	888	916	947	981	1015	1049	1083	1290	530	1290	710	330	710	42.1	57.4
7 PVS 1050	415	777	872	983	1009	1033	1065	1103	1141	1179	1216	1254	1480	630	1480	710	330	710	46.4	62.4
8 PVS 1200	478	886	996	1137	1169	1198	1236	1274	1312	1350	1388	1426	1680	730	1680	710	330	710	51.4	68.4
9 PVS 1350	541	1000	1120	1281	1318	1354	1390	1426	1462	1498	1534	1570	1860	830	1860	710	330	710	56.4	74.4
10 PVS 1500	604	1100	1240	1418	1460	1498	1536	1574	1612	1650	1688	1726	2050	910	2050	710	330	710	61.4	80.4
11 PVS 1650	667	1200	1362	1555	1590	1628	1665	1702	1740	1777	1814	1851	2200	980	2200	710	330	710	66.4	86.4
12 PVS 1800	730	1320	1486	1699	1740	1782	1816	1851	1884	1919	1954	1989	2350	1070	2350	710	330	710	71.4	92.4
11 PVS 2000	790	1470	1656	1888	1930	1974	2018	2062	2106	2150	2194	2238	2600	1170	2600	710	330	710	76.4	98.4
12 PVS 2200	850	1620	1818	2070	2112	2154	2196	2238	2280	2322	2364	2406	2780	1260	2780	710	330	710	81.4	104.4
13 PVS 2470	910	1780	2000	2280	2322	2364	2406	2448	2490	2532	2574	2616	3000	1350	3000	710	330	710	86.4	110.4
14 PVS 2660	1051	1980	2220	2520	2562	2604	2646	2688	2730	2772	2814	2856	3250	1440	3250	710	330	710	91.4	116.4
15 PVS 2850	1192	2160	2420	2740	2782	2824	2866	2908	2950	2992	3034	3076	3480	1530	3480	710	330	710	96.4	122.4
16 PVS 3040	1333	2340	2620	2960	2992	3034	3076	3118	3160	3202	3244	3286	3700	1620	3700	710	330	710	101.4	128.4
17 PVS 3230	1474	2510	2800	3160	3192	3234	3276	3318	3360	3402	3444	3486	3900	1710	3900	710	330	710	106.4	134.4
18 PVS 3420	1615	2670	3080	3460	3492	3534	3576	3618	3660	3702	3744	3786	4200	1800	4200	710	330	710	111.4	140.4
19 PVS 3610	1756	2840	3260	3660	3692	3734	3776	3818	3860	3902	3944	3986	4400	1890	4400	710	330	710	116.4	146.4
20 PVS 3800	1897	2990	3420	3840	3872	3914	3956	3998	4040	4082	4124	4166	4580	1980	4580	710	330	710	121.4	152.4
21 PVS 3990	2038	3150	3590	4020	4052	4094	4136	4178	4220	4262	4304	4346	4760	2070	4760	710	330	710	126.4	158.4
22 PVS 4180	2179	3300	3750	4180	4212	4254	4296	4338	4380	4422	4464	4506	4920	2160	4920	710	330	710	131.4	164.4
23 PVS 4370	2320	3450	3910	4340	4372	4414	4456	4498	4540	4582	4624	4666	5080	2250	5080	710	330	710	136.4	170.4
24 PVS 4560	2461	3570	4040	4470	4502	4544	4586	4628	4670	4712	4754	4796	5210	2340	5210	710	330	710	141.4	176.4
25 PVS 4750	2602	3720	4190	4620	4652	4694	4736	4778	4820	4862	4904	4946	5360	2430	5360	710	330	710	146.4	182.4
26 PVS 4940	2743	3870	4340	4770	4802	4844	4886	4928	4970	5012	5054	5096	5510	2520	5510	710	330	710	151.4	188.4
27 PVS 5130	2884	4020	4490	4920	4952	4994	5036	5078	5120	5162	5204	5246	5660	2610	5660	710	330	710	156.4	194.4
28 PVS 5320	3025	4170	4640	5070	5102	5144	5186	5228	5270	5312	5354	5396	5810	2700	5810	710	330	710	161.4	200.4
29 PVS 5510	3166	4320	4790	5220	5252	5294	5336	5378	5420	5462	5504	5546	5960	2790	5960	710	330	710	166.4	206.4

1, 2) Internal resistance R_i and self-discharge current I_{sc} according to IEC 60896-11.
Height (H) is the maximum height between central bottom and top of the leads in assembled condition.
BAE *Secura PVS solar* batteries are also available as dry pre-charged version. They are filled with distilled H₂O, e.g. 4 PVS 280 TL.
All values given in the table correspond to 100 % DOD without voltage drop of connectors. Please consider item 7.

3. Terminal positions



2 PVS 140 to 6 PVS 900
7 PVS 1050 to 12 PVS 2200
13 PVS 2470 to 16 PVS 3040
17 PVS 3230 to 26 PVS 4940
Terminals are designed as female poles with brass inlay M10 for flexible insulated copper cables with cross-section 25, 35, 50, 70, 95 or 120 mm² or insulated solid copper connectors with cross-section 90, 150 or 300 mm².



Lampiran 4. Harga Peralatan

1. Turbin angin

Sandown Wireless / Bergey Price List

Please contact us for Current pricing. This market changes all the time.
This list was last updated 10/10/2016

Battery Charging Models

Power Watts	Voltage	Description	Model No.	Price
1 KW	24 or 48 VDC	BWC XL.1 turbine, includes MidNite Solar Classic 250 Charge Controller and MidNite Solar Turbine Control Box. Consult Factory for other voltages	XL. 1-24MS XL. 2-48MS	\$4,995.00
10 KW	48 VDC	BWC Excel 10/S turbine, includes New VCS II Advanced Charge Controller	11000-S	\$31,770

Grid-Intertie Models

6 KW	208/240 VAC, 60 Hz 230 VAC 50 Hz	BWC Excel 6/S Turbine, Includes: Powersync II Inverter (10)	10600-S	\$21,995.00
10 KW	208/240 VAC, 60 Hz 230 VAC 50 Hz	BWC Excel 10/S Turbine, Includes: Powersync II Inverter (10)	11000-S	\$31,770.00

2. Baterai

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- + Photovoltaic panels (price/piece)
- + Deep Cycle batteries Solar Photovoltaic
- + Inverters Off-Grid
- + On-grid inverters
- + Chargere Baterii Samlex 12/24V - 230V
- + Controllers(Regulators) Solar
- + Photovoltaics Aluminum Structures
- + Pachete Solare Fotovoltaice Off-Grid
- + Pachete Solare Fotovoltaice On-Grid
- + Wind turbines

BAE Secura 26 PVS 4940

In stock

www.e-solare.com



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CS Part #: cs-301363
Mfr. Part #: SG125HV
Manufacturer: [Sungrow](#)
Category: [Inverters](#)

Min Qty: 1
Bundle Size: 1
Unit Price: \$13,240.00
Ext Price: \$13,240.00
\$/W: \$0.106

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