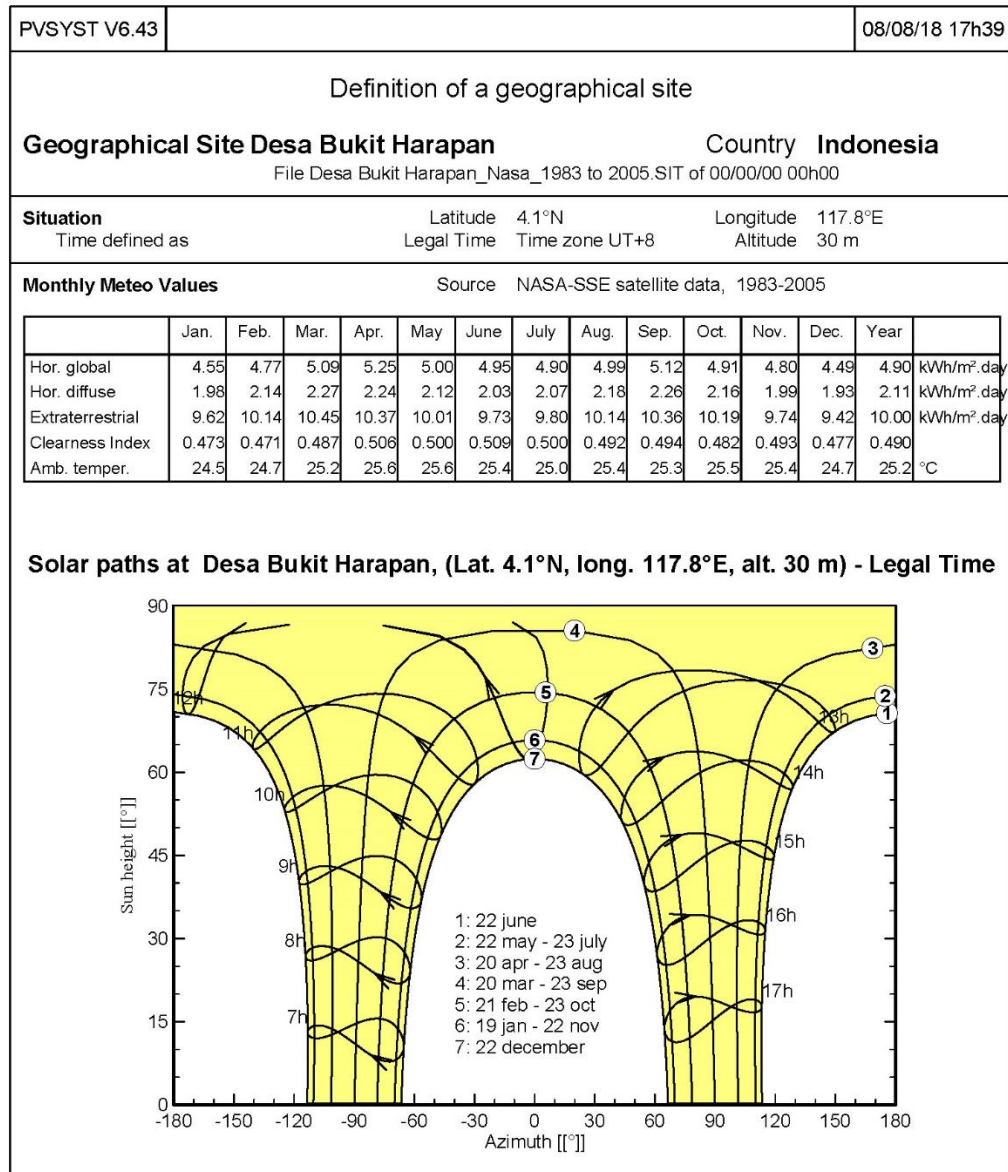


LAMPIRAN

Lampiran 1. Data Geografi Lokasi



No	Nama Stasiun	Curah Hujan (mm)		Suhu Maksimum (°C)		Suhu Minimum (°C)	
		Nilai Ekstrem	Tanggal Kejadian	Nilai Ekstrem	Tanggal Kejadian	Nilai Ekstrem	Tanggal Kejadian
53	Stasiun Meteorologi Nunukan	187.5	19 Apr 2010	35.3	10 Mar 2010	18.4	22 Sep 2012
54	Stasiun Meteorologi Juwata	157.2	03 Dec 2017	35.2	10 Oct 2014	20	06 Mar 2014
55	Stasiun Meteorologi Kalimantan	192	31 Mar 2012	37	18 Sep 2015	19	28 Jul 2009

Lampiran 2. Data Jumlah Rumah dan Fasilitas Umum

Tabel 3.1 Jumlah Penduduk Menurut Jenis Kelamin dan Jumlah Rumah Tangga Dirinci Berdasarkan Desa di Kecamatan Sebatik Tengah, 2016

Desa/Kelurahan	Laki-laki	Perempuan	Jumlah Penduduk	Jumlah Rumah Tangga
[1]	[2]	[3]	[4]	[5]
1. Sungai Limau	1 467	1 322	2 789	750
2. Maspul	421	398	819	199
3. Aji Kuning	1 704	1 549	3 253	707
4. Bukit Harapan	618	562	1 180	273
Jumlah	4 210	3 831	8 041	1 929

Sumber : Kantor Kecamatan Sebatik Tengah

Tabel 2.1 Jumlah Dusun dan Rukun Tetangga (RT) di kecamatan Sebatik Tengah Menurut Desa/Kelurahan, 2016

Desa/Kelurahan	Klasifikasi	Dusun	Rukun Tetangga
[1]	[2]	[3]	[4]
1. Sungai Limau	Desa	2	14
2. Maspul	Desa	2	6
3. Aji Kuning	Desa	2	13
4. Bukit Harapan	Desa	2	7
Jumlah		8	40

Sumber : Kantor Kecamatan Sebatik Tengah

Tabel 4.1 Jumlah Sekolah di Kecamatan Sebatik Tengah Tahun Ajaran 2012/2013 - 2016/2017

Jenis Sekolah	Tahun Ajaran				
	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017
[1]	[2]	[3]	[4]	[5]	[6]
SD	6	6	6	6	6
MI	-	-	-	-	-
SMP	2	2	2	2	2
MTs	-	-	-	-	-
SMA	1	1	1	1	1
MA	-	-	-	-	-
Jumlah	9	9	9	9	9

Sumber : Dinas Pendidikan Nasional Kab. Nunukan

Lampiran 3. Data Acuan Kuota Energi Listrik

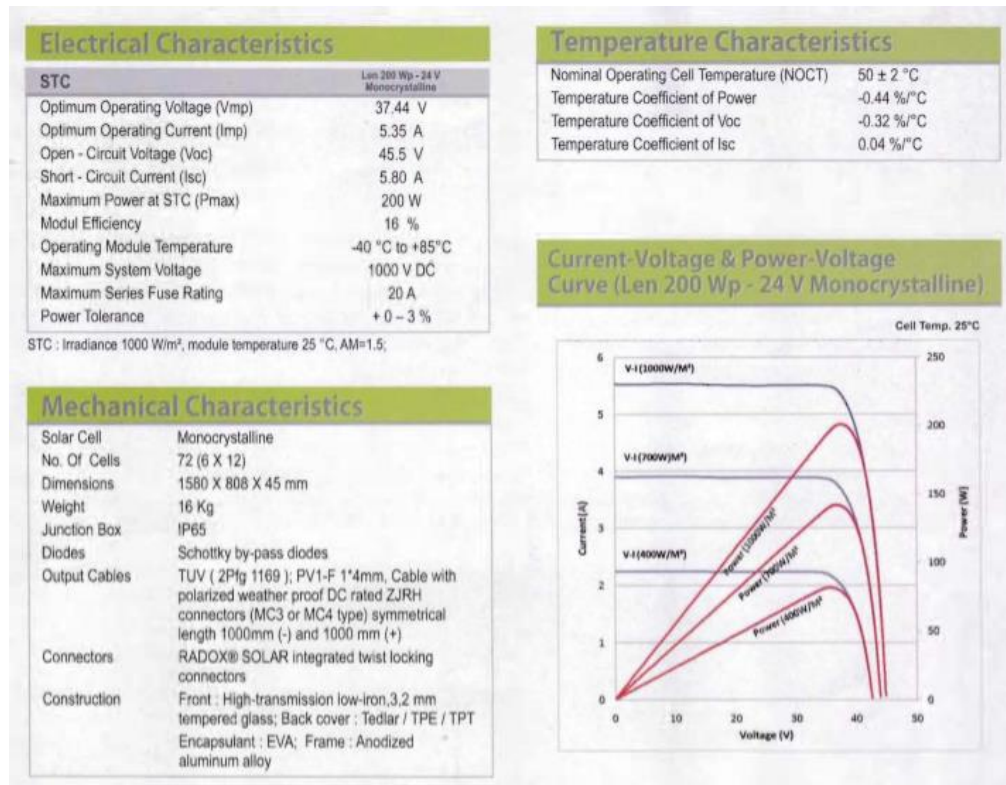
Table 6. Minimum Daily Energy Services [hours/day] to be supplied by the system

Load (Minimum Power [W])	Wh25	Wh50	Wh75	Wh100	Wh150	Wh200	Wh250	Wh300	Wh400	Wh500
Main Lighting (10 W)	2	2	2	3	4	4	8	12	16	20
Secondary Lighting (8 W)	0	2	2	2	2	2	4	6	10	10
TV (35 W)	0	0	1	1	2	3	3	3	4	5
Radio/Cassette Player (5 W)	1	2	1	2	2	3	3	3	4	5

Of course suppliers have the freedom to change the type of services they are offering. If, for example, there is no television reception in an area, the TV service may be replaced by lighting or radio. The number of service hours in Table 6 needs then be adjusted. The following conversion factors need to be taken:

Lampiran 4. Data Spesifikasi Peralatan

a. Panel surya (LEN MONO 200 Wp)



b. Solar charger controller (Conext MPPT 80 600)

Electrical Specifications

Maximum PV Array Open Circuit Voltage	600 VDC
PV Array Voltage Operating Range	195 to 550 VDC
PV Array Voltage Full Power Range ^a	230 to 550 VDC
Maximum Power Point Tracking Range	195 to 510 VDC
PV Input Start Voltage	230 VDC
Maximum Operating Current	23 A
Maximum Array Short Circuit Current at STC	28 A
Absolute Maximum Array Short Circuit Current Under Any Conditions	35 A (See the Notice on the next page for more information)
Nominal Battery Voltages	24 and 48 VDC (Default is 48 V)
Battery Voltage Operating Range	16 to 67 VDC
Maximum Charging Current	80 A
Maximum Charging Power	2560 W (nominal 24 V battery bank) 4800 W (nominal 48 V battery bank)

c. Inverter baterai (Conext XW+ 7048)

Device short name	XW+ 7048 E
Inverter AC output (standalone)	
Output power (continuous) at 25° C	5500 W
Overload 30 min/60 sec at 25° C	7000 W/9500 W
Output power (continuous) at 40° C	4500 W
Maximum output current 60 seconds (rms)	40 A
Output frequency (selectable)	50/60 Hz
Output voltage	230 Vac
Total harmonic distortion at rated power	< 5%
Idle consumption search mode	< 7 W
Input DC voltage range	40 to 64 V (48 V nominal)
Maximum input DC current	150 A
Charger DC output	
Maximum output charge current	110 A
Output charge voltage range	40 – 64 V (48 V nominal)
Charge control	Three stage, two stage, boost, custom
Charge temperature compensation	Battery temperature sensor included
Power factor corrected charging	0.98
Compatible battery types	Flooded (default), Gel, AGM, Lithium ion, custom*
Battery bank range (scaled to PV array size)	440 to 10000 Ah


d. Baterai (JYC GD1200-2)

Specification

Nomial Voltage	2V	
Capacity	1200.0Ah@10hr to 1.80V/cell	
Dimension	Length	275±3mm (10.8 inches)
	Width	210±3mm (8.27 inches)
	Container Height	796±3mm (31.3 inches)
	Total Height (with Terminal)	831±3mm (32.7 inches)
Approx Weight	Approx 92 kg	
Container Material	ABS	
Rated Capacity	1200 AH/120.0A	(10hr,1.80V/cell,20 /68)
	1131 AH/377A 849	(5hr,1.75V/cell,20°C 68°F)
	AH/849A	(3hr,1.75V/cell,20°C 68°F)
Max. Discharge Current	12000A (5s)	
Internal Resistance	Approx 0.30 mΩ	

Lampiran 5. Harga Peralatan


a. Panel surya (LEN MONO 200 Wp)



MODUL SURYA-MONOCRYSTALLINE [LEN200M] , 200 Wp 72 Cells, PANEL SURYA - TKDN-SERTIFIKASI SNI-BPPT, Life Time >20thn
 CODE:22112-200
HARGA PRICELIST Rp 2.799.300
 [disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)


b. Solar charger controller (Conext MPPT 80 600)



SOLAR CHARGE CONTROLLER-OFF GRID-MPPT [XW-MPPT 80-600] , [PN: 865-1040-1] 80 A 12/24/36/48/60V, Input MPPT Max 600V, Aplikasi PLTS Off Grid
 CODE:30166-60
HARGA PRICELIST Rp 13.451.600
 [disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)


c. Inverter baterai (Conext XW+ 7048)



INVERTER HYBRID-SINGLE PHASE [XW 7048 E] , 5500W, [PN:865-7048-61] Input Batt 48V Hybrid dapat berfungsi sebagai Off Grid dan Ongrid
 CODE:14167-55
HARGA PRICELIST Rp 74.714.900
 [disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)


d. Baterai (JYC GD1200-2)



BATERAI OPZV [OPzV1200] , 1200Ah 2VDC, DEEP CYCLE TUBULAR GEL BATTERY > 2000 Cycles @DOD 80%
 CODE:12043-1200
HARGA PRICELIST Rp 10.857.000
 [disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

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e. Combiner Box



PANEL LISTRIK-COMBINER BOX 1000VDC [COMB021000VDC] , Input 2 String, Include DC Fuse, Proteksi Surja Petir DC Arrester (+)(-), DC MCB/Switch 1000VDC. Tipe Outdoor, Material Metal, Finishing Powder Coating
 CODE:23115-21000
HARGA PRICELIST Rp 3.960.000
 [disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

f. Sistem monitoring (Conext Combox)



SENSOR & MONITORING-MONITORING SYSTEM [COM_BOX], [PN: 865-1058], Xanbus Connector 2xRJ45, Ethernet 1xRJ45 10/100 MBPS, rs485 Modbus, USB 2.0 Host & Device, Power Consumption 2-10W, IP20 (indoor only), Internal Memory 98 MB Flash, External MicroSD

CODE:28172-COM_BOX

HARGA PRICELIST **Rp 11.853.000**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

h. Rak baterai



MEKANIKAL-BATTERY SUPPORT [RB1000-0224T], untuk baterai 1000Ah 1 bank, 24 Pcs, Finishing Cat Semprot, Rak tunggal, ketinggian min 15cm dari lantai

CODE:39125-RB1000-0224T

HARGA PRICELIST **Rp 4.675.000**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

i. Sistem kontrol (Conext SCP)



SENSOR & MONITORING-SYS CONTROL PANEL [CONNEX_SCP], [PN:865-1050-01] Monitor & Configure Conect XW+, 5W, MPPT60 150, MPPT 80 600, AGS, Battery Monitor, Compatible with Conect ComBox, RJ45 connection for Xanbus network cables, IP20

CODE:28168-CONNEX_SCP

HARGA PRICELIST **Rp 4.403.900**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

j. Penyangga panel array



SUPPORT MODULE-GROUND MOUNTED [SPGM05000PNT], 5000Wp, Metal Finishing Cat Semprot Ground Mounted, CODE:31048-SPGM05000PNT

HARGA PRICELIST **Rp 18.139.000**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

k. Panel distribusi AC



PANEL LISTRIK-PANEL DISTRIBUSI [PDB150K03], 150 kVA, 3 Phase, 2 output Feeder, 1 local feeder, Freq, Volt, Amp, kWh, Arrester . Tipe Indoor, Material Metal, Finishing Powder Coating

CODE:23142-150K03

HARGA PRICELIST **Rp 55.825.000**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

[DATASHEET](#) [MORE DETAIL >>](#)

l. Monitoring baterai



SENSOR & MONITORING-BATTERY MONITORING [BATT_MON], [PN:865-1080-01] Stand alone or Integration with Conext XW+ Inverter Charger Sys. Enable triggers for AGS, Enables balancing of Multi-battery bank, wall-mount, DIN rail mount, panel mount. RJ45, IP20

CODE:28171-BATT_MON

HARGA PRICELIST **Rp 9.089.600**

[disc 5%-50% tergantung jenis produk dan jumlah order, hubungi kami untuk penawaran terbaik]

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