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Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 2 Tahun 2024 tentang Ketentuan Pelaksanaan Usaha Penyediaan Tenaga Listrik.

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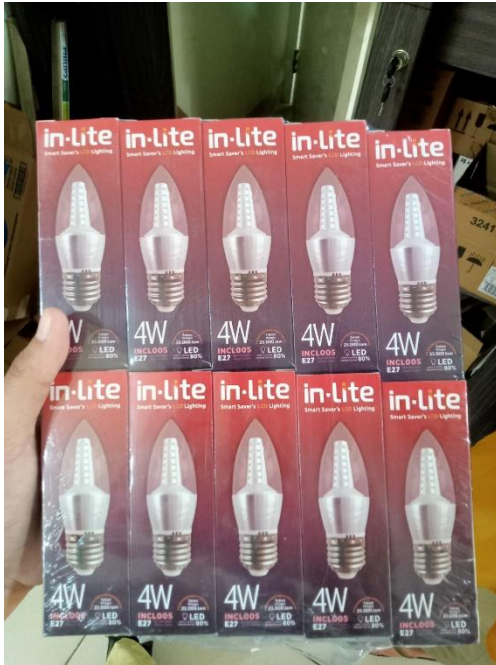
Lampiran 2 Data beban

DATA LAPORAN LAMPU DI RJU ULUJAMI 2023

Pada tanggal 3 Februari 2023 telah mengambil lampu
Di Gudang Pengelola Rumah Jabatan Di Gedung Nusantara 3 Senayan

No	Item	Qty
1.	LAMPU LED LOHAY D27X24 11 WATT/PHILIP	48 BUAH
2.	LAMPU LED 14,5 WATT	12 BUAH
3.	LAMPU LED 18 WATT/PHILIP	25 BUAH
4.	LAMPU TLD 36/54 WATT/PHILIP	25 BUAH
5.	LAMPU HALOGEN LED 220 V (KLINGING)	20 BUAH
6.	LAMPU DOWN LED HIGH PHILIP 10 WATT	24 BUAH
7.	LAMPU LED 10 WATT (KLINGING)	12 BUAH





Lampiran 3 Spesifikasi panel surya

Mono Multi Solutions



PRODUCT: TSM-0E09
PRODUCT RANGE: 390-405W

405W+

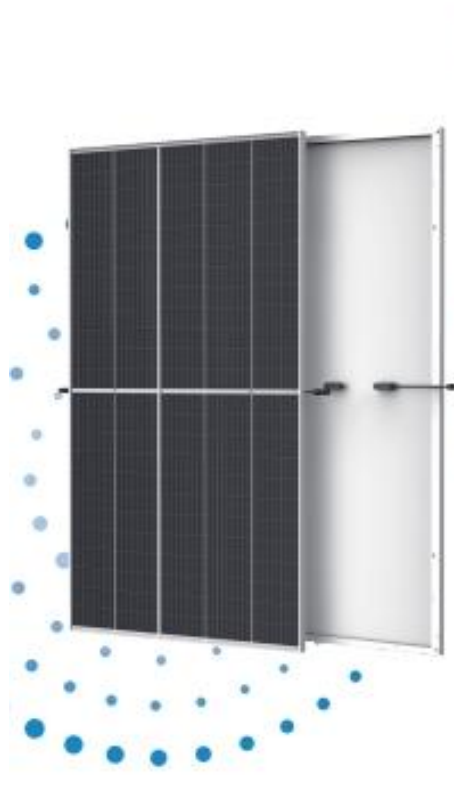
MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.1%

MAXIMUM EFFICIENCY



Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space. Up to 405W, 21.1% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with lower temperature coefficient (-0.34%) and operating temperature

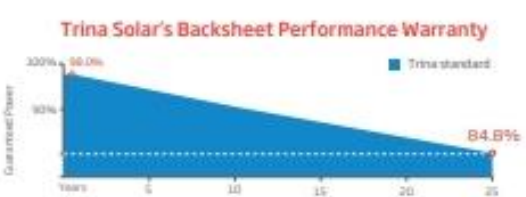
Universal solution for residential and C&I rooftops

- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment

High Reliability

- 25 year performance warranty with lowest degradation;
- Ensured PID resistance through cell process and module material control
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

Trina Solar's Backsheet Performance Warranty



Years	Guaranteed Power (%)
0	99.0%
25	84.8%

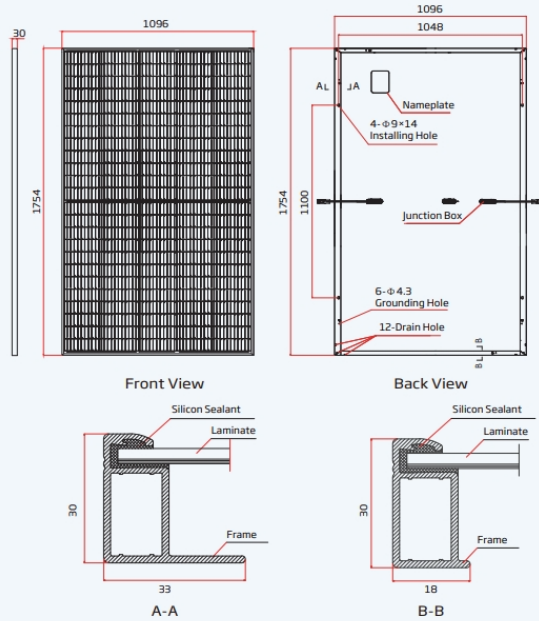
Comprehensive Products and System Certificates



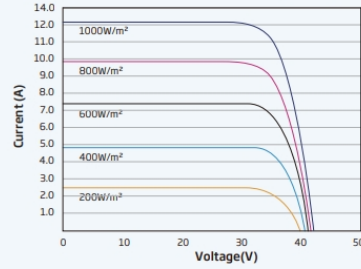
IEC 61215/IEC 61730/IEC 61701/IEC 62716
 ISO 9001: Quality Management System
 ISO 14001: Environmental Management System
 ISO 14064: Greenhouse Gases Emissions Verification
 ISO 45001: Occupational Health and Safety Management System



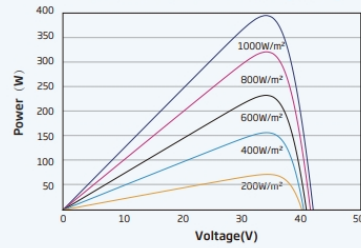
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(395 W)



P-V CURVES OF PV MODULE(395W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	390	395	400	405
Power Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MP} (V)	33.8	34.0	34.2	34.4
Maximum Power Current- I_{MP} (A)	11.54	11.62	11.70	11.77
Open Circuit Voltage- V_{OC} (V)	40.8	41.0	41.2	41.4
Short Circuit Current- I_{SC} (A)	12.14	12.21	12.28	12.34
Module Efficiency η_m (%)	20.3	20.5	20.8	21.1

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5. *Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	295	298	302	306
Maximum Power Voltage- V_{MP} (V)	31.8	32.0	32.2	32.5
Maximum Power Current- I_{MP} (A)	9.26	9.32	9.38	9.41
Open Circuit Voltage- V_{OC} (V)	38.4	38.6	38.8	38.9
Short Circuit Current- I_{SC} (A)	9.78	9.84	9.90	9.95

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.0 kg (46.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	White
Frame	30mm (1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: 280/280 mm(11.02/11.02 inches) Landscape: 1100/1100 mm(43.31/43.31 inches)
Connector	MC4 EV02 / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.34%/°C
Temperature Coefficient of V_{OC}	-0.25%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A

WARRANTY

12 year Product Workmanship Warranty
 25 year Power Warranty
 2% first year degradation
 0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 36 pieces
 Modules per 40' container: 936 pieces

Lampiran 4 Pemilihan inverter

Untuk beban 100%:

7 SPECIFICATIONS

Table 1 Line Mode Specifications

INVERTER MODEL	8.2KW	10.2KW
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	230Vac	
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)	
Low Loss Return Voltage	180Vac±7V (UPS); 100Vac±7V (Appliances)	
High Loss Voltage	280Vac±7V	
High Loss Return Voltage	270Vac±7V	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Low Loss Frequency	40±1Hz	
Low Loss Return Frequency	42±1Hz	
High Loss Frequency	65±1Hz	
High Loss Return Frequency	63±1Hz	
Output Short Circuit Protection	Circuit Breaker	
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)	
Output power derating: When AC input voltage drops to 170V, the output power will be derated.		

Table 2 Inverter Mode Specifications

INVERTER MODEL	8.2KW	10.2KW
Rated Output Power	8.2KW	10.2KW
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Peak Efficiency	93%	
Overload Protection	3s@≥150% load; 5s@101%~150% load	
Surge Capacity	2* rated power for 5 seconds	
Nominal DC Input Voltage	48Vdc	
Cold Start Voltage	46.0Vdc	
Low DC Warning Voltage @ load < 50% @ load ≥ 50%	44.0Vdc 42.0Vdc	
Low DC Warning Return Voltage @ load < 50% @ load ≥ 50%	45.0Vdc 44.0Vdc	
Low DC Cut-off Voltage @ load < 50% @ load ≥ 50%	41.0Vdc 40.0Vdc	
High DC Recovery Voltage	62Vdc	
High DC Cut-off Voltage	63Vdc	
No Load Power Consumption	70W	75W

Table 3 Two Load Output Power

INVERTER MODEL	8.2KW	10.2KW
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load(battery model)	2733W	3400W
Main Load Cut Off Voltage	52VDC	
Main Load Return Voltage	54VDC	

Table 4 Charge Mode Specifications

Utility Charging Mode		
INVERTER MODEL	8.2KW	10.2KW
Charging Algorithm	3-Step	
AC Charging Current (Max)	140Amp	140Amp
Bulk Charging Voltage	Flooded Battery	58.4
	AGM / Gel Battery	56.4
Floating Charging Voltage	54Vdc	
Charging Curve		
MPPT Solar Charging Mode		
INVERTER MODEL	8.2KW	10.2KW
Max. PV Array Power	PV1 Channel:5400W	PV1 Channel:5400W
	PV2 Channel:5400W	PV2 Channel:5400W
IMax,PV	PV1 Channel: 23A	
	PV2 Channel: 23A	
Nominal PV Voltage	360Vdc	
PV Array MPPT Voltage Range	90Vdc-450Vdc	
Max. PV Array Open Circuit Voltage	500Vdc	
Max Charging Current (AC charger plus solar charger)	160Amp	

Table 5 Grid-Tie Operation

INVERTER MODEL	8.2KW	10.2KW
Nominal Output Voltage	220/230/240VAC	
Feed-in Grid Voltage Range	195~253VAC	
Feed-in Grid Frequency Range	49-51±1Hz/59-61±1Hz	
Nominal Output Current	35.6A	44.3A
Power Factor Range	>0.99	
Maximum Conversion Efficiency (DC/AC)	98%	

Table 6 General Specifications

INVERTER MODEL	8.2KW	10.2KW
Safety Certification	CE	
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Dimension (D*W*H), mm	530*390*130mm	
Net Weight, kg	14.2	14.5

7 SPECIFICATIONS

Table 1 Line Mode Specifications

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Input Voltage Waveform	Sinusoidal (utility or generator)		
Nominal Input Voltage	230Vac		
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)		
Low Loss Return Voltage	180Vac±7V (UPS); 100Vac±7V (Appliances)		
High Loss Voltage	280Vac±7V		
High Loss Return Voltage	270Vac±7V		
Max AC Input Voltage	300Vac		
Nominal Input Frequency	50Hz / 60Hz (Auto detection)		
Low Loss Frequency	40±1Hz		
Low Loss Return Frequency	42±1Hz		
High Loss Frequency	65±1Hz		
High Loss Return Frequency	63±1Hz		
Output Short Circuit Protection	Circuit Breaker		
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)		
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)		
<p>Output power derating: When AC input voltage drops to 170V, the output power will be derated.</p>			

Untuk beban 25%, 50%, dan 75%

Table 2 Inverter Mode Specifications

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Rated Output Power	3.6KW	4.2KW	6.2KW
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	230Vac±5%		
Output Frequency	50Hz		
Peak Efficiency	93%		
Overload Protection	3s@≥150% load; 5s@101%~150% load		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC Input Voltage	24Vdc		48Vdc
Cold Start Voltage	23.0Vdc		46.0Vdc
Low DC Warning Voltage @ load < 50% @ load ≥ 50%	22.0Vdc 21.0Vdc		44.0Vdc 42.0Vdc
Low DC Warning Return Voltage @ load < 50% @ load ≥ 50%	22.5Vdc 22.0Vdc		45.0Vdc 44.0Vdc
Low DC Cut-off Voltage @ load < 50% @ load ≥ 50%	20.5Vdc 20.0Vdc		41.0Vdc 40.0Vdc
High DC Recovery Voltage	32Vdc		62Vdc
High DC Cut-off Voltage	33Vdc		63Vdc
No Load Power Consumption	30W	35W	50W

Table 3 Two Load Output Power

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
Maximum Second Load(battery model)	1200W	1400W	2066W
Main Load Cut Off Voltage	26VDC		52VDC
Main Load Return Voltage	27VDC		54VDC

Table 4 Charge Mode Specifications

Utility Charging Mode			
INVERTER MODEL	3.6KW	4.2KW	6.2KW
Charging Algorithm	3-Step		
AC Charging Current (Max)	100Amp (@V _{LP} =230Vac)		
Bulk Charging Voltage	29.2		58.4
AGM / Gel Battery Voltage	28.2		56.4
Floating Charging Voltage	27Vdc		54Vdc
Charging Curve			
MPPT Solar Charging Mode			
INVERTER MODEL	3.6KW	4.2KW	6.2KW
Max. PV Array Power	6200W		6500W
Nominal PV Voltage	240Vdc		360Vdc
PV Array MPPT Voltage Range	60Vdc~500Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
Max Charging Current (AC charger plus solar charger)	120Amp	120Amp	120Amp

Table 5 Grid-Tie Operation

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Nominal Output Voltage	220/230/240 VAC		
Feed-in Grid Voltage Range	195 ~ 253VAC		
Feed-in Grid Frequency Range	49~51 ± 1Hz / 59~61 ± 1Hz		
Nominal Output Current	15.7A	18.2A	26.9A
Power Factor Range	> 0.99		
Maximum Conversion Efficiency (DC/AC)	97%		

Table 6 General Specifications

INVERTER MODEL	3.6KW	4.2KW	6.2KW
Safety Certification	CE		
Operating Temperature Range	-10°C to 50°C		
Storage temperature	-15°C~ 60°C		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Dimension (D*W*H), mm	358×442×116		
Net Weight, kg	8.0	8.0	8.9

Lampiran 5 Spesifikasi baterai

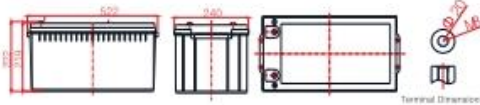


General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology
- > Long life



Dimension:522(L)×240(W) ×219(H)×222(TH) Unit: mm



JM Series lead-acid battery

Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

Specification

Nominal Voltage	12V
Nominal Capacity	200Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 57.0kg (126lbs)
Container Material	ABS
Rated Capacity	200Ah 20Hour Rate (10.0A to 10.5V)
	151Ah 3Hour Rate (50.3A to 10.5V)
	125Ah 1Hour Rate (125A to 9.6V)
Internal resistance	Full charged at 25°C: 3.0 mΩ
Max. Discharge Current	2400A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)
	Charge : -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max.50A ; Recom.20A
Float Charge voltage(-18mV/°C) :	
Charge Method (25 °C)	13.5-13.8V,recom.13.5V(Full floating system)
	13.5-13.8V,recom.13.62V(Cycle use system)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

Lampiran 6 Suku bunga kredit di Indonesia

Kelompok Bank	Suku Bunga Kredit Rupiah Menurut Kelompok Bank											
	2024											
	Januari	Februari	Maret	April	Mei	Juni	Juli	Agustus	September	Oktober	November	Desember
Bank Persero - Modal Kerja	8,92	8,93	8,94	8,92	8,96	8,90	-	-	-	-	-	-
Bank Persero - Investasi	9,44	9,46	9,47	9,47	9,46	9,45	-	-	-	-	-	-
Bank Persero - Konsumsi	9,24	9,21	9,13	9,10	9,07	9,04	-	-	-	-	-	-
Bank Pemerintah Daerah - Modal Kerja	8,97	9,01	8,99	9,01	9,03	9,01	-	-	-	-	-	-
Bank Pemerintah Daerah - Investasi	9,06	9,12	9,10	9,10	9,09	9,08	-	-	-	-	-	-

Sumber: [Suku Bunga Kredit Rupiah Menurut Kelompok Bank - Tabel Statistik - Badan Pusat Statistik Indonesia \(bps.go.id\)](#)

Lampiran 7 Penetapan tarif listrik dari PLN



**PENETAPAN
PENYESUAIAN TARIF TENAGA LISTRIK (TARIFF ADJUSTMENT)**

JULI - SEPTEMBER 2024

NO.	GOL. TARIF	BATAS DAYA	REGULER		PRA BAYAR (Rp/kWh)
			BIAYA BEBAN (Rp/kVA/bulan)	BIAYA PEMAKAIAN (Rp/kWh) DAN BIAYA kVArh (Rp/kVArh)	
1.	R-1/TR	900 VA-RTM	*)	1.352,00	1.352,00
2.	R-1/TR	1.300 VA	*)	1.444,70	1.444,70
3.	R-1/TR	2.200 VA	*)	1.444,70	1.444,70
4.	R-2/TR	3.500 VA s.d. 5.500 VA	*)	1.699,53	1.699,53
5.	R-3/TR	6.600 VA ke atas	*)	1.699,53	1.699,53
6.	B-2/TR	6.600 VA s.d. 200 kVA	*)	1.444,70	1.444,70
7.	B-3/TM	di atas 200 kVA	**)	Blok WBP = K x 1.035,78 Blok LWBP = 1.035,78 kVArh = 1.114,74 ****)	-
8.	I-3/TM	di atas 200 kVA	**)	Blok WBP = K x 1.035,78 Blok LWBP = 1.035,78 kVArh = 1.114,74 ****)	-
9.	I-4/TT	30.000 kVA ke atas	***)	Blok WBP dan Blok LWBP = 996,74 kVArh = 996,74 ****)	-
10.	P-1/TR	6.600 VA s.d. 200 kVA	*)	1.699,53	1.699,53
11.	P-2/TM	di atas 200 kVA	**)	Blok WBP = K x 1.415,01 Blok LWBP = 1.415,01 kVArh = 1.522,88 ****)	-
12.	P-3/TR		*)	1.699,53	1.699,53
13.	L/TR, TM, TT		-	1.644,52	-

Catatan :

*) Diterapkan Rekening Minimum (RM):
RM1 = 40 (Jam Nyala) x Daya tersambung (kVA) x Biaya Pemakaian.

***) Diterapkan Rekening Minimum (RM):
RM2 = 40 (Jam Nyala) x Daya tersambung (kVA) x Biaya Pemakaian LWBP.
Jam nyala : kWh per bulan dibagi dengan kVA tersambung.

****) Diterapkan Rekening Minimum (RM):
RM3 = 40 (Jam Nyala) x Daya tersambung (kVA) x Biaya Pemakaian WBP dan LWBP.
Jam nyala : kWh per bulan dibagi dengan kVA tersambung.

*****) Biaya kelebihan pemakaian daya reaktif (kVArh) dikenakan dalam hal faktor daya rata-rata setiap bulan kurang dari 0,85 (delapan puluh lima per seratus).

K : Faktor perbandingan antara harga WBP dan LWBP sesuai dengan karakteristik beban sistem kelistrikan setempat ($1,4 \leq K \leq 2$), ditetapkan oleh Direksi Perusahaan Perseroan (Persero) PT Perusahaan Listrik Negara.

WBP : Waktu Beban Puncak.
LWBP : Luar Waktu Beban Puncak.

Lampiran 8 Dokumentasi kegiatan

