



LAMPIRAN

DAFTAR PEMAKAIAN ALAT LISTRIK DUSUN SADAP DESA PERLANG.

| no. | nama | lampu | tv | rice cooker | kulkas |
|-----|----------|-------|----|-------------|--------|
| 1 | damok | 2 | 1 | | |
| 2 | rahmat | 4 | 1 | | |
| 3 | supardi | 1 | | | |
| 4 | samsumin | 1 | | | |
| 5 | rasid | 2 | 1 | | |
| 6 | sumar | 2 | | | |
| 7 | madi | 2 | | | |
| 8 | mis | 2 | | | |
| 9 | P. Tarjo | 4 | 1 | | |
| 10 | ipan | 1 | | | |
| 11 | sinta | 2 | 1 | 1 | |
| 12 | osen | 3 | 1 | | |
| 13 | basir | 5 | 1 | | |
| 14 | joni | 3 | 1 | 1 | |
| 15 | kelincim | 1 | 1 | | |
| 16 | rosidi | 2 | | 1 | |
| 17 | mansor | 2 | 1 | | |
| 18 | salam | 4 | 1 | 1 | |
| 19 | ishel | 2 | 1 | 1 | |
| 20 | seruni | 2 | | | |
| 21 | sainubin | 2 | 1 | 1 | |
| 22 | wan | 3 | | | |
| 23 | suriani | 2 | | | |

| | | | | | |
|----|----------|---|---|---|---|
| 24 | aye | 2 | | | |
| 25 | cikmo | 2 | 1 | | |
| 26 | B. Mong | 2 | | | |
| 27 | riyot | 2 | | | |
| 28 | pen | 2 | | | |
| 29 | saidin | 2 | | | |
| 30 | berok | 2 | | | |
| 31 | lia | 2 | 1 | 1 | |
| 32 | P. Atik | 2 | | | |
| 33 | tempe | 2 | 1 | | |
| 34 | mahadi | 1 | 1 | | |
| 35 | sor | 2 | 1 | 1 | |
| 36 | mariman | 1 | 1 | | |
| 37 | sus | 2 | | | |
| 38 | B. Pacet | 2 | 1 | | |
| 39 | mun | 3 | 1 | 1 | |
| 40 | sugianto | 1 | 1 | | |
| 41 | abu | 1 | | | |
| 42 | W. Mut | 1 | | | |
| 43 | nani | 1 | 1 | | |
| 44 | subai | 2 | 1 | | |
| 45 | matt | 2 | | | |
| 46 | sulai | 3 | | | |
| 47 | muhammad | 2 | 1 | 1 | 1 |
| 48 | Am | 1 | 1 | | |

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| | | | | |
|----|----------|---|---|---|
| 49 | Gan miar | 2 | | |
| 50 | Anyak | 1 | 1 | |
| 51 | M. Sadek | 1 | | |
| 52 | anac | 2 | 1 | |
| 53 | yai | 2 | | |
| 54 | tomo | 1 | | |
| 55 | Ri sumin | 2 | 1 | |
| 56 | sakip | 1 | | |
| 57 | rus | 3 | | 1 |
| 58 | wan | 3 | 1 | 1 |
| 59 | marjani | 2 | | |
| 60 | bastiar | 4 | 1 | |
| 61 | mantok | 2 | | 1 |
| 62 | manjamin | 1 | | |
| 63 | tritno | 2 | | |
| 64 | toyo | 2 | | |
| 65 | jun | 1 | | |
| 66 | son | 2 | | |
| 67 | sukri | 2 | 1 | |
| 68 | barmanto | 2 | 1 | |
| 69 | rusdi | 3 | 1 | |
| 70 | mohammad | 2 | | |
| 71 | abdul | 3 | 1 | |
| 72 | yunus | 2 | | |
| 73 | bonasan | 3 | 1 | |

| | | | | | |
|----|------------|---|---|---|---|
| 74 | ohe | 2 | 1 | | |
| 75 | sulin | 2 | 1 | | |
| 76 | tosam | 2 | 1 | | |
| 77 | marsukan | 2 | 1 | 1 | |
| 78 | marsaid | 4 | 1 | 1 | |
| 79 | yatem | 2 | | 1 | |
| 80 | muas | 3 | 1 | 1 | |
| 81 | rudi | 3 | 1 | | |
| 82 | maliki | 1 | | | |
| 83 | jamaluddin | 1 | | | |
| 84 | mukti | 1 | | | |
| 85 | pian | 1 | 1 | 1 | |
| 86 | rino | 1 | 1 | | |
| 87 | bayu | 7 | 1 | 1 | 1 |
| 88 | nawawi | 1 | | | |
| 89 | musa | 3 | | | |
| 90 | alyas | 2 | | | |
| 91 | kasim | 1 | | | |
| 92 | inang | 2 | | | |
| 93 | moktar | 2 | | | |
| 94 | susi | 4 | 1 | 1 | 1 |
| 95 | bambang | 3 | 1 | 1 | 1 |
| 96 | wahyu | 2 | | | |
| 97 | heru | 1 | 1 | | |
| 98 | olan | 1 | | | |

DAFTAR PEMAKAIAN ALAT LISTRIK DUSUN SADAP DESA PERLANG.

| | | | | | |
|-----|---------|---|---|---|---|
| 99 | dafi | 2 | | | |
| 100 | tun | 2 | | | |
| 101 | P. Muad | 2 | | | |
| 102 | dijah | 2 | | | |
| 103 | yam | 2 | | | |
| 104 | lus | 2 | | | |
| 105 | wawan | 3 | 1 | | |
| 106 | soha | 2 | 1 | | |
| 107 | amir | 3 | 1 | 1 | 1 |
| 108 | ine | 1 | | | |
| 109 | T. Abi | 2 | 1 | | |
| 110 | muiz | 1 | | | |
| 111 | ogi | 1 | | | |
| 112 | ris | 3 | 1 | 1 | 1 |
| 113 | acid | 2 | | | |
| 114 | tatak | 2 | | | |
| 115 | dana | 2 | | | |
| 116 | asep | 3 | 1 | | |
| 117 | along | 2 | 1 | | |
| 118 | ardi | 2 | | | |
| 119 | rizal | 2 | | | |
| 120 | heri | 2 | 1 | | |
| 121 | rio | 2 | 1 | | |
| 122 | ical | 1 | | | |
| 123 | ajak | 2 | | | |

| | | | | | |
|-----|---------|---|---|---|---|
| 124 | karim | 2 | | | |
| 125 | rizal | 2 | 1 | | |
| 126 | isban | 3 | 1 | | |
| 127 | zaki | 2 | | | |
| 128 | jaka | 2 | | | |
| 129 | akuy | 5 | 1 | 1 | 1 |
| 130 | perdi | 2 | | | |
| 131 | dian | 3 | 1 | 1 | |
| 132 | riski | 2 | | | |
| 133 | andi | 3 | 1 | 1 | |
| 134 | tukiman | 2 | 1 | | |
| 135 | retno | 2 | | | |
| 136 | dayat | 1 | | | |
| 137 | arya | 2 | | | |
| 138 | atan | 2 | | | |
| 139 | joe | 3 | 1 | 1 | 1 |
| 140 | ijul | 2 | 1 | | |
| 141 | yakub | 2 | | | |
| 142 | fijar | 2 | | | |
| 143 | reza | 2 | | | |
| 144 | dani | 1 | | | |
| 145 | amad | 1 | | | |
| 146 | ajai | 2 | 1 | | |
| 147 | andri | 2 | 1 | | |
| 148 | doni | 2 | | | |

DAFTAR PEMAKAIAN ALAT LISTRIK DUSUN SADAP DESA PERLANG.

| | | | | | |
|-----|----------|---|---|---|---|
| 149 | apri | 1 | | | |
| 150 | bayu/umi | 2 | 1 | | |
| 151 | juanda | 1 | | | |
| 152 | bangun | 2 | | | |
| 153 | deas | 2 | | | |
| 154 | rivai | 3 | 1 | 1 | 1 |
| 155 | fatih | 2 | | | |
| 156 | lay | 2 | | | |
| 157 | tito | 2 | | | |
| 158 | putro | 4 | 1 | 1 | 1 |
| 159 | mul | 2 | | | |
| 160 | P. Riki | 4 | 1 | | |
| 161 | yogi | 2 | | | |
| 162 | abu zyan | 1 | | | |
| 163 | agung | 1 | | | |
| 164 | dwi | 2 | | | |
| 165 | diko | 3 | 1 | 1 | |
| 166 | fahyudi | 2 | | | |
| 167 | feki | 2 | | | |
| 168 | otong | 2 | | | |
| 169 | wira | 3 | 1 | 1 | |
| 170 | emi | 2 | | | |
| 171 | reno | 2 | | | |
| 172 | amro | 1 | | | |
| 173 | sukardi | 2 | | | |

| | | | | | |
|-----|--------|---|---|---|---|
| 174 | sanuri | 2 | | | |
| 175 | ugah | 2 | | | |
| 176 | bob | 3 | 1 | 1 | 1 |
| 177 | suyung | 2 | | | |
| 178 | yori | 1 | | | |
| 179 | anoi | 2 | | | |
| 180 | awik | 3 | 1 | | |

SKENARIO BEBAN DUSUN SADAP SELAMA 24 JAM.

| jam | Lampu 13 W | TV 75 W | RC 350 W | Kulkas 60 W | Total (W) | (kW) |
|-----|------------|---------|----------|-------------|-----------|--------|
| 0 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 1 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 2 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 3 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 4 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 5 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 6 | 2340 | 5700 | 0 | 660 | 8700 | 8,7 |
| 7 | 0 | 5700 | 0 | 660 | 6360 | 6,36 |
| 8 | 0 | 0 | 11200 | 660 | 11860 | 11,86 |
| 9 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 10 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 11 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 12 | 0 | 5700 | 0 | 660 | 6360 | 6,36 |
| 13 | 0 | 5700 | 0 | 660 | 6360 | 6,36 |
| 14 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 15 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 16 | 0 | 0 | 0 | 660 | 660 | 0,66 |
| 17 | 0 | 5700 | 0 | 660 | 6360 | 6,36 |
| 18 | 4875 | 5700 | 0 | 660 | 11235 | 11,235 |
| 19 | 4875 | 5700 | 0 | 660 | 11235 | 11,235 |
| 20 | 4875 | 5700 | 11200 | 660 | 22435 | 22,435 |
| 21 | 4875 | 5700 | 0 | 660 | 11235 | 11,235 |
| 22 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| 23 | 2340 | 0 | 0 | 660 | 3000 | 3 |
| | | | | | 130100 | 130.1 |

Jumlah :

Lampu = 375 (jam 1800 – 0600)

TV = 76 (jam 0600 – 0700 , 1200 – 1300 , 1700 – 2100)

RC = 32 (jam 0800 dan 1800 dan 1900)

Kulkas = 11 (jam 0000 – 2300)

Tarif Listrik :

Lampu = Rp. 10.000

RC = Rp. 20.000

TV = Rp. 20.000

Kulkas = Rp. 30.000

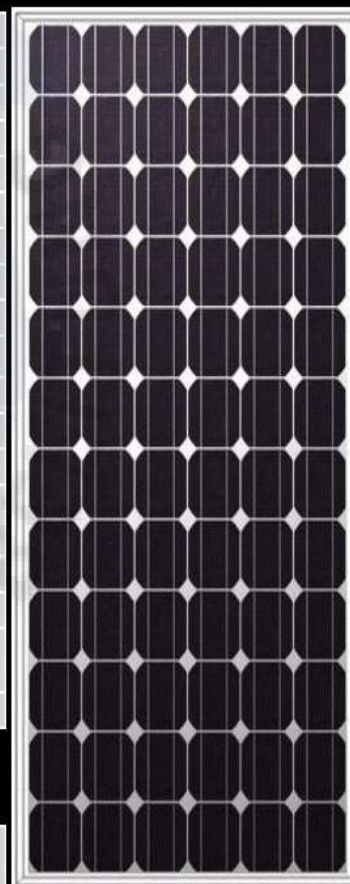
SPECIFICATION OF 200W MONO SOLAR MODULE

Mono-Crystalline

| Module type | Pm(W) | Number of cell | Cell Dimension (mm) | Max System Voltage(V) | Vm(V) | Im(A) | Voc(V) | Isc(A) |
|-------------|-------|----------------|---------------------|-----------------------|-------|-------|--------|--------|
| TN-200M | 200W | 72 | 125 | 1000 | 37.5 | 5.33 | 46.5 | 5.62 |

Parameter

| | |
|-------------------------------------|--|
| Maximum system voltage (V) | 1000 |
| Temperature coefficients of Isc (%) | +0.1%/°C |
| Temperature coefficients of Voc (%) | -0.38%/°C |
| Temperature coefficients of Pm (%) | -0.47%/°C |
| Temperature coefficients of Im (%) | +0.1%/°C |
| Temperature coefficients of Vm (%) | -0.38%/°C |
| Temperature Range | -40°C ---85°C |
| Surface Maximum Load Capacity | 60m/s (200kg/sq.m) |
| Junction Box Type | Waterproof, TUV certificated |
| Connectors and Cables Type | 4mm ² |
| Length of Cables (mm) | 900 |
| Cell Efficiency (%) | ≥18.69% |
| Output tolerance (%) | ± 3% |
| Glass | High transmissivity low-iron 3.2 mm toughened glass |
| Frame (Material, Corners, etc.) | Anodized Aluminum Alloy |
| Standard Test Conditions | AM1.5 100MW/cm ² 25°C |
| Guarantee of power | 5 years for whole products,90% power for 10years, 80% power for 25years. |
| FF (%) | ≥73.3% |



Physical Characters

| Output | Module Net Weight | Module Size | Packing | 20' Container | 40' Container |
|--------|-------------------|-------------|-------------|---------------|---------------|
| 200W | 14.5(kg) | 1580*808*35 | 2pcs/carton | 336pcs | 784 pcs |



Contact us :

LUMINOUS

Jis Pe Desh Kare Bharosa

MADE IN INDIA
For Home UPS &
Inverter Battery Category

HIGH PERFORMANCE SOLAR BATTERIES



LUMINOUS SOLAR BATTERIES

Founded in 1988, Luminous Power Technologies (P) Limited today is a leading company with a differentiated portfolio of solutions for packaged power, diversified generation, electrical control & safety and energy optimisation.

With over 5000+ employees, 7 manufacturing units, 28 sales offices and more than 50000 channel partners; Luminous apart from its dominating position in the domestic market also has a strong foothold worldwide. Awarded with the 'Global Superbrands' status for the year 2011-12, ISO 50001:2011 certification and MNRE-CRISIL recognition, Luminous is passionately committed to bring uninterrupted and alternate power solutions to the customers that makes their life comfortable and efficient.

Solar Batteries

Luminous Solar Flooded Tubular Monoblock Batteries are designed to offer reliable, consistent and low maintenance power for renewable energy requirements and can be subject to deep cycle applications and minimum maintenance in rural and power deficit areas. The batteries have a capacity to withstand partial state of charge (PSOC) operation. These batteries are available in 12 Volts from 20Ah to 200 Ah @ C10 at 27°C.

| | |
|-----------------------------|--|
| Container and Lids | Polypropylene Co-Polymer |
| Separators | Polyethylene envelope type |
| Positive Plates | Tubular low antimony |
| Negative Plate | Flat pasted |
| Connectors | Through partition welding |
| Vent Plugs | PP with float |
| Sulphuric Acid | 1.240 - 0.010 sp. gravity when fully charged |
| Self discharge when charged | 3% per month @ 27°C |
| Life Cycle | 1500 cycles @ 80% DoD; 3000 cycles @ 50% DoD; 5000 cycles @ 20% DoD |
| Ah efficiency | Above 90% |
| Wh efficiency | Above 80% |
| Toppling up frequency | Once in 8-10 months |



SOLAR BATTERY APPLICATIONS

- Solar home lights
- Solar street lighting system
- Solar inverter
- Telecom tower
- Rural & urban electrification
- Power backup in small industry
- Solar power projects
- Various types of solar product



Technical Specifications

| Model Name | Nominal Voltage | C10 Capacity with 10.5V @ 27°C | | Length ± 3 | Width ± 3 | Total Height (Including Terminal) ± 3 | Dry Weight ± 3% | Filled Weight ± 3% | Electrolyte Volume |
|--------------------------|-----------------|--------------------------------|------|------------|-----------|---------------------------------------|-----------------|--------------------|--------------------|
| | V | Ah | ftWh | mm | mm | mm | Kg | Kg | Litre |
| For Solar Models: | | | | | | | | | |
| LPT1220L | 12 | 20 | 0.24 | 250.00 | 173.00 | 225.00 | 9.5 | 14.2 | 3.8 |
| LPT1220H | 12 | 20 | 0.24 | 260.00 | 173.00 | 225.00 | 10.00 | 17.5 | 5.6 |
| LPT1240L | 12 | 40 | 0.48 | 410.00 | 176.00 | 233.00 | 15.1 | 23.3 | 8.8 |
| LPT1240H | 12 | 40 | 0.48 | 410.00 | 176.00 | 233.00 | 15.6 | 24.8 | 7.4 |
| LPT1275L | 12 | 75 | 0.9 | 505.00 | 220.00 | 292.00 | 18.1 | 36.3 | 14.7 |
| LPT1275H | 12 | 75 | 0.9 | 505.00 | 220.00 | 298.00 | 20.6 | 33.1 | 14.1 |
| LPT12100L | 12 | 100 | 1.2 | 505.00 | 220.00 | 292.00 | 25.8 | 45.6 | 15.3 |
| LPT12100H | 12 | 100 | 1.2 | 517.00 | 272.00 | 250.00 | 27.1 | 47.5 | 16.5 |
| LPT12135H | 12 | 135 | 1.62 | 517.00 | 272.00 | 250.00 | 32.5 | 49.1 | 15.4 |
| LPT12150TT | 12 | 150 | 1.8 | 503.00 | 189.00 | 411.00 | 37.0 | 61.0 | 21.0 |
| LPT12200L | 12 | 200 | 2.40 | 503.00 | 189.00 | 411.00 | 41.5 | 65.5 | 19.0 |

Technical Specifications are subject to change without prior notice

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