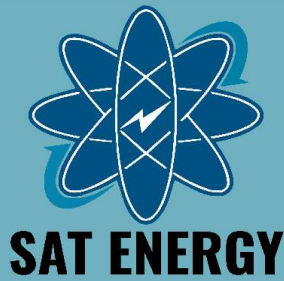


SOLAR GENERATOR



SATB-400W Total Battery

Applications



- The best Portable off-the-grid power supply solution for locations without electricity or unstable power grids.
- Great for outdoor use such as camping trips, beach trips, cooking and grilling, recreational activities and other related activities that require power.
- You can charge the battery and use its stored power at the same time.
- Device can also be recharged from solar panels and from an AC power source.

Features

- Powerful Lithium Battery with display
- LCD Screen that can display current battery level, charging and discharging power
- 12V car jumpstarter cable
- Solar charging cable
- AC charger cable
- Portable and lightweight for easy transport
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 300 Watt Inverter
- Able to charge phones, tablets, laptops, digital cameras, small refrigerators and more



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SATB-400W Total Battery

Technical Specifications

Battery

Battery Capacity	400Wh
Battery Type	Li-ion Battery
Product Dimension	9.2 in x 5.8 in x 9.3 in
Net Weight	12.3 lbs

Charge

AC Wall Charger	70W (7-8 hours)
DC Car Charger	48W (10-11 hours)
Solar Charger	120W (4 hours)
Input Voltage	14-45Vdc

AC Output

Rated Output Power	300W
Maximum Output	600W
Output Voltage	100V/110V/120Vac or 220V230V240Vac
Output Frequency	50Hz/60Hz

DC Output

Overload Ability	110%<load<150% @2min; 150%<load<200% @2s
USB Ability	2 x 5V/2.1 & 2 x 5V/1A
12V Car Port	120W
DC 6mm Port	2 x 12V 3A

Extra Features

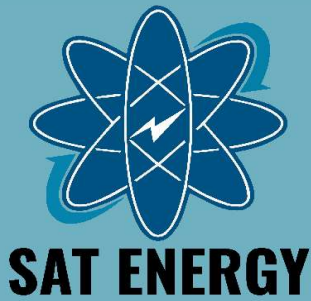
12V Jump Starter Cable	Car Charging Cable
Solar Charging Cable	AC Charger

Temperature

Relative Humidity	5%~90%
Discharge Temperature	14°F~140°F
Charge Temperature	32°F~113°F



SAT ENERGY



SATB-700W Total Battery

Applications



- The best off-the-grid portable power supply solution for locations without electricity or unstable power grids
- Great for outdoor use and camping trips to store energy for later power consumption
- The 700W Total Battery can provide power to various AC devices under 500W
- The battery generator can be fully recharged from solar panels and from an AC power source

Features

- Sleek body design with optional color casing
- Portable and lightweight for easy transport
- LCD Screen that can display current battery level, charging, and discharge power
- Able to charge phones, tablets, laptops, digital cameras, small refrigerators and more
- Powerful Lithium Battery with display
- Fully integrated charge controller and 500W inverter
- Powerful AC/DC output capabilities
- 12V car jumpstarter cable
- Solar charging cable
- AC Charger Cable



SAT ENERGY

SATB-700W Total Battery

Technical Specifications

Battery

Battery Capacity	700Wh
Battery Type	Li-ion Battery
Product Dimension	16 in x 8.5 in x 10.3 in
Net Weight	17 lbs

Charge

AC Charge	327W (90~264Vac)
PV Max Input Power	210W
MPPT Input Voltage	18~50Vdc
MPPT Efficiency	99.50%

AC Output

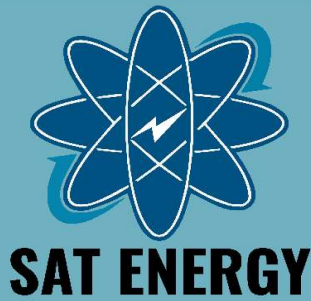
Rated Output Power	500W
Maximum Output	650VA @20s
Output Voltage	100V/110V/120Vac or 220V230V240Vac
Output Frequency	50Hz/60Hz
Overload Ability	103%<load<115% @60s or 116%<load<130% @20s

DC Output

DC 12V Car Port	72W
Working Temperature	32°F~104°F



SAT ENERGY



SATB-1200W Total Battery

Applications



- The best off-the-grid portable power supply solution for locations without electricity or unstable power grids
- Great for outdoor use and camping trips to store energy for later power consumption
- The 1200W Total Battery can provide power to various AC devices under 500W
- The battery generator can be fully recharged from solar panels and from an AC power source

Features

- Sleek body design with optional color casing
- Portable and lightweight for easy transport
- LCD Screen that can display current battery level, charging, and discharge power
- Able to charge phones, tablets, laptops, digital cameras, small refrigerators and more
- Powerful Lithium Battery with display
- Fully integrated charge controller and 500W inverter
- Powerful AC/DC output capabilities
- 12V car jumpstarter cable
- Solar charging cable
- AC Charger Cable



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SATB-1200W Total Battery

Technical Specifications

Battery

Battery Capacity	1200Wh
Battery Type	Li-ion Battery
Product Dimension	16 in x 8.5 in x 10.3 in
Net Weight	22 lbs

Charge

AC Charge	327W (90~264Vac)
PV Max Input Power	210W
MPPT Input Voltage	18~50Vdc
MPPT Efficiency	99.5%

AC Output

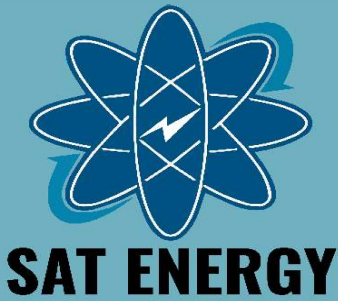
Rated Output Power	500W
Maximum Output	650VA @20s
Output Voltage	100V/110V/120Vac or 220V230V240Vac
Output Frequency	50Hz/60Hz
Overload Ability	103%<load<115% @60s or 116%<load<130% @20s

DC Output

DC 12V Car Port	72W
Working Temperature	32°F~104°F



SAT ENERGY



SATB-1500W Total Battery

Applications



- The best off-the-grid portable power supply solution for locations without electricity or unstable power grids
- Great for outdoor use and camping trips to store energy for later power consumption
- The 1500W Total Battery can provide power to various AC devices under 500W
- The battery generator can be fully recharged from solar panels and from an AC power source

Features

- Sleek body design with optional color casing
- Portable and lightweight for easy transport
- LCD Screen that can display current battery level, charging, and discharge power
- Able to charge phones, tablets, laptops, digital cameras, small refrigerators and more
- Powerful Lithium Battery with display
- Fully integrated charge controller and 500W inverter
- Powerful AC/DC output capabilities
- 12V car jumpstarter cable
- Solar charging cable
- AC Charger Cable



SAT ENERGY

SATB-1500W Total Battery

Technical Specifications

Battery

Battery Capacity	1500Wh
Battery Type	Li-ion Battery
Product Dimension	16 in x 8.5 in x 10.3 in
Net Weight	27 lbs

Charge

AC Charge	327W (90~264Vac)
PV Max Input Power	210W
MPPT Input Voltage	18~50Vdc
MPPT Efficiency	99.5%

AC Output

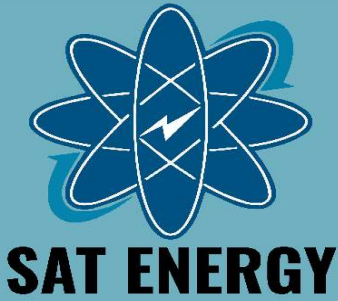
Rated Output Power	500W
Maximum Output	650VA @20s
Output Voltage	100V/110V/120Vac or 220V230V240Vac
Output Frequency	50Hz/60Hz
Overload Ability	103%<load<115% @60s or 116%<load<130% @20s

DC Output

DC 12V Car Port	72W
Working Temperature	32°F~104°F



SAT ENERGY



SATB-3.2kW Total Battery



Applications

- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 3.2kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator is also a great power source for cooking, recreational, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 1.5kW Inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid



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SATB-3.2kW Total Battery

Technical Specifications

Battery

Battery Capacity	3.2KWh
Battery Type	Li-ion Battery
Product Dimension	22 in x 11.9 in x 23.6 in
Net Weight	108 lbs

AC Output

Rated Output Power	1500W
Maximum Output	2250W
Output Voltage	100V/110V/120Vac or 220V/230V/240Vac
Output Frequency	50Hz/60Hz
Overload Ability	120%<load<130% @10min, 130%<load<150% @10s
UPS Function	Yes
Feed Into Grid	No
Max Efficiency	>92%

PV Charger

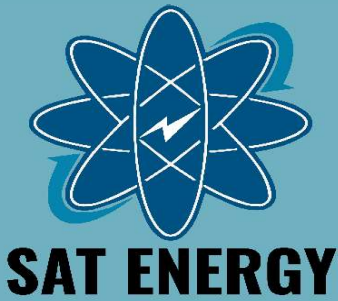
Max Input Power	1200W
Start-up Voltage	75Vdc
MPPT Input Port	75~140Vdc
MPPT Input Voltage	150Vdc
Max Input Voltage	99.5%
Max Efficiency	>96%
Solar Charging Model	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-4kW Total Battery



Applications

- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 4kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator is also a great power source for cooking, recreational, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 1.5kW Inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid



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SATB-4kW Total Battery

Technical Specifications

Battery

Battery Capacity	4.0KWh
Battery Type	Li-ion Battery
Product Dimension	22 in x 12 in x 23.6 in
Net Weight	117 lbs

AC Output

Rated Output Power	2000W
Maximum Output	3000W
Output Voltage	100V/110V/120Vac or 220V230V240Vac
Output Frequency	50Hz/60Hz
Overload Ability	120%<load<130% @10min, 130%<load<150% @10s
UPS Function	Yes
Feed Into Grid	No
Max Efficiency	>92%

PV Charger

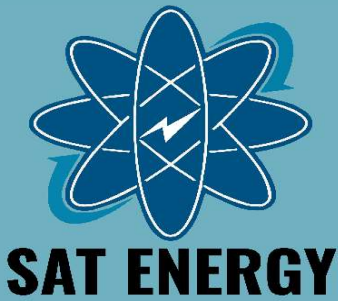
Max Input Power	1200W
Start-up Voltage	75Vdc
MPPT Input Port	75~140Vdc
MPPT Input Voltage	150Vdc
Max Input Voltage	99.5%
Max Efficiency	>96%
Solar Charging Model	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-6.5kW Total Battery

Applications



- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 6.5kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator can also be used as an outdoor power supply for cooking, recreation, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 3kW Inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid



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SATB-6.5kW Total Battery

Technical Specifications

Battery

Battery Capacity	6.5KWh
Battery Type	Li-ion Battery
Product Dimension	31 in x 14 in x 36 in
Net Weight	291 lbs

Output

Rated Output Power	3000W
Maximum Output	4500W
Overload Ability	100%<load<110% @10min; 110%~150% @10s
On/off Grid	On/off grid

AC Charge

Input Voltage	100/110/120V or 220/230/240V
Power Factor	≥0.95 (full load)
Input Frequency	50Hz/60Hz
Max Charge Power	3000W
Max Efficiency	≥92%

PV Charge

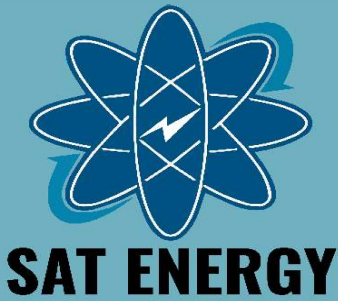
Max Input Power	3000W
Start-up Voltage	75Vdc
MPPT Input Port	2
MPPT Input Voltage	75~140Vdc
Max Input Voltage	150Vdc
MPPT Efficiency	99.5%
Max Efficiency	≥96%
Solar Charging Model	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-8kW Total Battery

Applications



- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 8kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator can also be used as an outdoor power supply for cooking, recreation, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 3kW Inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid



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SATB-8kW Total Battery

Technical Specifications

Battery

Battery Capacity	8kWh
Battery Type	Li-ion Battery
Product Dimension	31 in x 14 in x 36 in
Net Weight	309 lbs

Output

Rated Output Power	3000W
Maximum Output	4500W
Overload Ability	100%<load<110% @10min; 110%~150% @10s
On/off Grid	On/off grid

AC Charge

Input Voltage	100/110/120V or 220/230/240V
Power Factor	≥0.95 (full load)
Input Frequency	50Hz/60Hz
Max Charge Power	3000W
Max Efficiency	≥92%

PV Charge

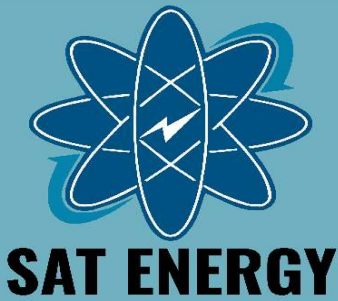
Max Input Power	3000W
Start-up Voltage	75Vdc
MPPT Input Port	2
MPPT Input Voltage	75~140Vdc
Max Input Voltage	150Vdc
MPPT Efficiency	99.5%
Max Efficiency	≥96%
Solar Charging Model	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-12kW Total Battery

Applications

- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 12kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator can also be used as an outdoor power supply for cooking, recreation, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 3kW Inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid



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SATB-12kW Total Battery

Technical Specifications

Battery

Battery Capacity	12kWh
Battery Type	Li-ion Battery
Product Dimension	31 in x 15.4 in x 33 in
Net Weight	430 lbs

Output

Rated Output Power	3000W
Maximum Output	4500W
Overload Ability	100%<load<110% @10min; 110%~150% @10s
On/off Grid	On/off grid

AC Charge

Input Voltage	100/110/120V or 220/230/240V
Power Factor	≥0.95 (full load)
Input Frequency	50Hz/60Hz
Max Charge Power	3000W
Max Efficiency	≥92%

PV Charge

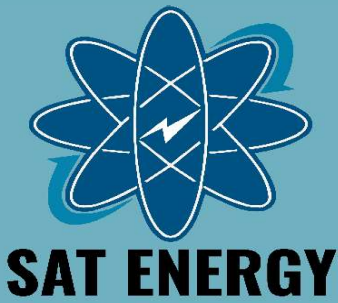
Max Input Power	3000W
Start-up Voltage	75Vdc
MPPT Input Port	2
MPPT Input Voltage	75~140Vdc
Max Input Voltage	150Vdc
MPPT Efficiency	99.5%
Max Efficiency	≥96%
Solar Charging Model	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-20kW Total Battery



Applications

- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 20kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator can also be used as an outdoor power supply for cooking, recreation, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP 54)
- Omni-directional wheels for easy movement and transport
- Remote Monitor to keep track of the battery's performance
- LCD Touch Screen for easy customization of battery parameters
- Powerful AC/DC output capabilities
- Fully integrated charge controller and 5kW inverter
- Able to power almost all electrical devices within a house
- Backup power supply for hospitals, banks, schools, churches, temples, etc.
- Capable of feeding surplus energy into a connected power grid
- Scalable from 2.5kW up to 20kW



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SATB-20kW Total Battery

Technical Specifications

Battery

Battery Capacity	2.4kWh*8
Battery Paralleling	Yes
Battery Type	Li-ion Battery
Product Dimension	21 in x 26 in x 63 in
Net Weight	595 lbs

AC Output

Rated Output Power	5000W
Maximum Output	7500W
Output Voltage	220V/230V/240V
Output Frequency	50Hz/60Hz±0.1%
Overload Ability	100%~110%@10min; 110%~150%@10s
UPS Function	Yes
On/Off Grid	Yes
Max Efficiency	92% (>70% load)

AC Input

Input Voltage	220V/230V/240V
Power Factor	0.95% (full load)
Input Frequency	50Hz/60Hz
Max Change Power	2500W
Max Efficiency	>0.92%

PV Input

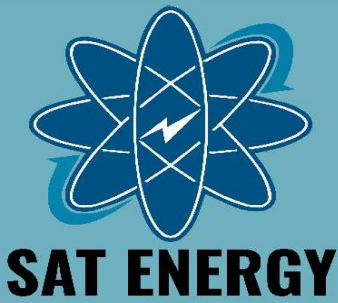
Max Input Power	5400W
MPPT Amount	2
MPPT Input Voltage	125V-550V
MPPT Efficiency	99.5%
Max Efficiency	>96%
Solar Charging Mode	MPPT

Working Condition

Relative Humidity	5%~90%
Temperature	32°F~113°F



SAT ENERGY



SATB-30kW Total Battery



Applications

- The best off-the-grid power supply solution for locations without electricity or unstable power grids
- The 30kW Total Battery can act as a backup generator for hospitals, emergency centers, businesses, homes, and many other locations affected by blackouts or a lack of access to a power grid
- The battery generator can be fully recharged from solar panels and from an AC power source
- The battery generator can also be used as an outdoor power supply for cooking, recreation, and other activities that require electricity

Features

- Strong durable metal casing suited for outdoors
- Weatherproof (IP54)
- Omni-directional wheels for easy movement and transport
- LCD Touch Screen for easy customization of battery parameters
- Remote Monitor to keep track of the battery's performance
- Fully integrated charge controller and 3kW Inverter
- Powerful AC/DC output capabilities
- Able to power almost all electrical devices within a house
- Capable of feeding surplus energy into a connected power grid
- Three phase balancing output system



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SATB-30kW Total Battery

Technical Specifications

Battery

Stored Battery Capacity	≥30KWh
Battery Type	Life PO4
Battery Cabinet Dimension	31 in x 25 in x 51 in
Inverter Cabinet Dimension	31 in x 25 in x 51 in
Battery Cabinet Weight	842 lbs
Inverter Cabinet Weight	826 lbs

AC Parameters

Continuous Rated Output Power	15kVA
Rated AC Grid Voltage	400Vac
Rated AC Inverter Voltage	400Vac
Rated AC Frequency	50Hz/60Hz
Grid Current	<4%
Inverter Current	<3%
On/Off Grid Switching Time	<66ft/s
Maximum Inverter Efficiency	93.80%
Output Waveform	Pure Sine Wave
AC Charging Power	7500W

DC Parameters

PV Input Power Per Line	4000W
Number of MPPT	4 Lines
Maximum PV Start-up Voltage	145Vdc
MPPT Voltage Range	70~140Vdc
PV Maximum Output Current	320A
Charger Maximum Efficiency	97.3%

System Parameters

Battery Rated Voltage	52V DC
Battery Voltage Working Range	44~58V DC
External Communications	RS485/RS232/USB/Internet/WiFi Optional
Altitude	<6562 ft
IP Grade	IP54
Working Environment Temperature	32°F~113°F
Working Environment Humidity	10%~90%



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SAT Energy Total Battery Hours of Use by Model

Equipment	Watts/Hour of Consumption	SATB-400W	SATB-700W	SATB-1200W	SATB-1500W	SATB-3.2kW	SATB-4kW	SATB-6.5kW	SATB-8kW
Freezer/Fridge	110	4	7	11	14	29	37	60	74
LED Bulb	8	50	96	144	192	404	505	829	1010
Mobile Phone	5	80	154	230	307	646	808	1326	1616
Printer Multi	32	13	24	36	48	101	126	207	253
Laptop	65	6	12	18	24	50	62	102	124
Radio	15	27	51	77	102	215	269	442	539
TV LCD 40"	150	3	5	8	10	22	27	44	54
Fan	36	11	21	32	43	90	112	184	224
Electric Oven	790	X	X	X	X	4	5	8	10
Electric Stove	1200	X	X	X	X	3	3	6	7
Microwave	640	X	X	X	X	5	6	10	13

Equipment	Watts/Hour of Consumption	SATB-12kW	SATB-20kW	SATB-30kW	SAT Energy Module	Capacity Storage in Watts	Rated Output Power in Watts	PV Charge in Watts
Freezer/Fridge	110	110	182	272	SATB-400W	400	300	120
LED Bulb	8	1,515	2500	3750	SATB-700W	768	500	210
Mobile Phone	5	2424	4000	6000	SATB-1200W	1152	500	210
Printer Multi	32	379	625	938	SATB-1500W	1536	500	210
Laptop	65	187	308	462	SATB-3.2kW	3200	1500	1200
Radio	15	808	1333	2000	SATB-4kW	4040	2000	1500
TV LCD 40"	150	81	133	200	SATB-6.5kW	6630	3000	3000
Fan	36	337	556	834	SATB-8kW	8080	3000	3000
Electric Oven	790	15	25	38	SATB-12kW	12120	3000	3000
Electric Stove	1200	10	17	25	SATB-20kW	20000	5000	5400
Microwave	640	19	31	47	SATB-30kW	30000	3000	7500

