

  
Earth caring energy solutions

## Off-Grid Solar Power Systems

Clean, green, affordable, 24x7 electricity for small houses,  
medium commercial establishments  
large bungalows with multiple Air-Conditioners  
medium scale factories with heavy machinery

तमसो मा ज्योतिर्गमय  
*Let there be Light*



Manufactured by:  
**Niwesh Tech PVT. LTD.**

**Made in India**  
made for the planet

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## Niwesh Tech Products List\*

(Valid for 2022-23)

### Small House / Street Business Lighting System

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#### 1. Angel - Rechargeable Power System

(Inbuilt 12 Ah Niweshtech, sealed Lead-Acid Battery and charge & discharge Controller)\* *Patent filed*

Fast charging dual USB, 2.1 Amp

+ 2 no. 9 Watts 12 volt solar/ DC Niweshtech Bulbs

+2 Holder with 2 meter length cable with switch and DC pin

2.5/3 meter DC extension cable

Smart Niweshtech SMPS Charger

(Can charge the device in 3 to 4 hours, \* 5 hours recommended)

Back up time 7 to 8 hours\*

\*Depends on usage

Warranty : one year.



#### 2. Ru - Solar Power System

(Inbuilt 12 Ah Niweshtech, sealed Lead- Acid Battery with 10 Amp MPPT charge & discharge Controller,

with 50 Watts Niweshtech Mono Solar Panel, 23.5 % efficient, to be charged in just 5 hours)\* *Patent filed*

Fast charging dual USB, 2.1 Amp

+ 2 no. 9 watts 12 volt solar/ DC Niweshtech Bulbs

+2 Holder with 2 meter length cable with switch and DC pin

2.5/3 meter DC extension cable

3 meter solar extension cable

Smart Niweshtech SMPS Charger

(Can charge the device in 3 to 4 hours\* 5 hours recommended.) \***OPTIONAL**

Back up time 7 to 8 hours\*

\*Depends on usage

Warranty : one year.



#### 3. Solo -Wanderer - Solar Power System ( under production)

(Inbuilt 30 Ah Lithium-ion Battery,1000 recharge cycle, MPPT charge & discharge Controller and folding Niweshtech Mono Solar Panel)

Smart 50 Watts fast charging dual USB of 2.1 Amp each

3 meter solar extension cable with Banana pin

220 Volt Ac out for TV or Laptop charging.

#### 4. Wonder-I, 24 x 7 , Solar Power System

(First of a kind Solar Power System to provide 24 x 7 solar electricity for DC bulbs and fans, and 220 Volt TV, computer or water purifier with 20 Amp MPPT charge & discharge Controller and just one 205 Watts Niweshtech Mono Solar Panel)\* Patent filed

Smart 50 Watts fast charging dual USB of 2.1 Amp each  
+ 3 no. 9 Watts 12 Volt solar/ DC Niweshtech Bulbs  
+3 Holder with 1.5, 3 and 5 meter length cable with switch and DC pin  
5 meter DC extension cable  
7 meter solar extension cable with MC4 Connectors  
220 Volt Ac (150 Watts) out for TV or Laptop charging  
Warranty : one year.

Lead Acid Battery from 100 Ah to 250 Ah ( not included)



#### Pure Sign Wave Economical Hybrid Off-Grid Solar Plants

#### 5. Niweshtech ESP - 3030, Solar Power System 3 KW

(This Hybrid Voltronics Solar Power System is highly economical and is suitable for domestic use, or where power is needed only in night time, like public lights, street lights etc.) This Hybrid Solar Power System is also Voltronics and is capable of running 1 Air-Conditioner (preferably 1 ton inverter AC), along with Fridge, regular 220 Volt lights /fan and other household appliances. This system uses 80 Amp MPPT to charge the battery (24 Volt) by solar panels and then convert the battery DC power into pure Sign Wave 220 Volt AC.

3010 ( 430 x 7 ) Watts Niweshtech Mono Solar Panel

The 3 KW **ESP- 3030** Solar Power System

24 Volt Lead Acid Battery 150 AH

(Two 12 Volt Lead - Acid Batteries to be used in series to make 24 Volt)

Complete installation including DC/AC circuit breakers etc.

\* For whole night back-up, 6 more 150 Ah Lead Acid Battery will be required that is excluding this cost.

Warranty : Two years.





## **Pure Sign Wave Off-Grid Solar Plants ( Battery-less operation)**

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Our Off-Grid, Solar Plants are equipped with High Frequency Smart Inverter, which will run without grid power and even without battery (*basic battery pack is required to keep the system stable*). These plants are capable of running Air Conditioners and other heavy induction based load within its out put power range.

PV input in these plants, is more than the output, for optimum solar power utilization. For night time operation, one can use grid power or use the battery pack. In total absence of grid power also, these plants are designed to give 24x7 electricity.

### **6. Niweshtech Solar Power System 3.5 KW**

It can run 2 Air-Conditioners of 1 ton each simultaneously (preferably Inverter AC)

4300 ( 430 x 10) watts of Niweshtech Mono Solar Panels  
**The Solar Plant, SPS- 3550**

Complete installation including DC/AC circuit breakers etc.  
24 Volt 150 Ah Lead-Acid Battery  
(Two 12 Volt Lead-Acid Batteries to be used in series to make 24 Volt)

*\* For whole night back-up, 8 more 150 Ah Lead Acid Battery will be required that is excluding this cost.*

*Standard Warranty of plant is two years, though Extended Warranty can be availed up-to ten years.*

### **7. Niweshtech Solar Power System 5.5 KW**

It can run 3 Air-Conditioners of 1 ton each simultaneously (preferably Inverter AC)

6450 ( 430 x 15) Watts Niweshtech Mono Solar Panels  
**The Solar Plant SPS- 5560**

Complete installation including DC/AC circuit breakers etc.  
48 Volt 150 Ah Lead-Acid Battery  
(Four 12 volt Lead-Acid Batteries to be used in series to make 48 Volt)

*\* For whole night back-up, 12 more 150 Ah Lead Acid Battery will be required that is excluding this cost.*

*Standard Warranty of plant is two years, though Extended Warranty can be availed up-to ten years.*



## 8. Niweshtech Custom Solar Power solutions up-to 100 KW

Beyond our 5.5 KW, we at Niweshtech also offer custom solutions as per the need of the client. We also have same Voltronic System of 8 KW. Depending on need (for example to run multiple Air-Conditioners in a commercial place of max 1.5 ton, each) we recommend our parallel system of 49.5 KW

$$5.5 \text{ KW} \times 9 = 49.5 \text{ KW}$$

If the individual load is more like 2.5 to 3 ton Ducting Air Conditioners or medium scale industrial equipments, we recommend :

$$8 \text{ KW} \times 6 = 48 \text{ KW}$$

We can also make custom Solar plants by using industrial grade battery operated 50 - 100 KW with 360 Volt DC system. To charge the battery pack , special custom MPPT charger will be used. This kind of Solar System can run even medium scale industries. If needed, this can be customized to provide 24 x 7 electricity without the Grid power. Where the need for power is only in night time, like banquet halls etc, this custom made plant would be very economical. Just with 50 KW solar panels, 100 KW power can be utilized for 7 hours at very economical price.

## Our Auxiliary Products

### 9. Niweshtech Mono Crystalline Solar Panel

The Solar Power Industry is still in its infancy in India, and off-grid is yet to find its place. Since the off-grid technology is real time, it needs the best possible solar panel. Unfortunately, the Indian solar industry is focused on mostly grid-tie, high efficiency solar panels are not easily available, specially for lower wattage like 50 Watts or 205 Watts. Due to high import duty, we at Niweshtech started making our own panels with the highest efficiency cell available. We use 23.5 % efficient solar cells and have made 50 Watts, 205 Watts, and 430 Watts solar panel.\*

*\* As of now we don't sell our solar panels, rather we provide them with our devices and solar plants.*

### 10. Niweshtech 12 AH sealed Lead Acid Battery

Unlike the popular belief, Lead-Acid Battery is most eco friendly, as it is fully recyclable and is made in India. Due to lack of high quality small Lead-Acid Battery and the high price, we also make our own 12 AH maintenance free sealed Lead-Acid Battery.\*

*\* As of now we only make 12 Ah sealed Lead-Acid Battery to be used in our devices.*



## **Niweshtech Accessories and Appliances**

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While developing small products for rural areas and not so privileged fellow citizens, we realized that no big company makes affordable quality products to cater to this section of our nation. Street vendors, and the rural population are forced to use low quality, either imported or “make in India” products and that too at exorbitant prices. The idea behind our small products was that technology should not be confined to the rich and upper class, but must also benefit the under privileged.

Hence, we also made high quality SMPS AC-DC charger, high efficiency, long lasting DC bulbs and highly efficient DC fans, that too at affordable price with Warranty.

### **11. Niweshtech smart SMPS AC-DC charger**

Our smart SMPS charger is 14 Volt, 2 Amp.  
It is powerful enough to charge 12 Ah Lead-Acid Battery in just 4 hours.  
It is automatic, hence over-charge protection is inbuilt.



### **12. Niweshtech 9 Watts Solar / DC 12 Volt LED Bulb**

Our Bulb is not only high lumens (900), but also highly efficient. It only takes 0.3 Amp load.  
It is long lasting with Warranty of 18 months.  
First of its kind in the Indian market with E-27 cap.



### **13. Niweshtech 12 / 24 Watts Solar / DC Table Fans**

Our Fans are highly energy efficient. In fact 12 Watts just takes 0.7 Amp and can run with our smallest device “Angel” or “Ru” for more than 7 hours.  
24 Watts fan takes around 2 Amp.

Both these models can run on 230 Volt AC, (with our adapter), or through our devices, or directly from battery and also directly from our 50 Watts solar panel. Long lasting and affordable.







Our planet, Mother Earth has given birth not just to one species "we the humans" but millions of life forms. It's hence the duty of entire mankind to care for her, because the existence of human race depends on it. In a tiny effort to restore the bleeding Mother, we have founded Niwesh Tech Pvt. Ltd. A Start-Up, dedicated to harvest solar power into clean green electricity and also to make highly energy efficient electrical appliances, made in India. Think globally, act locally is the mantra of this Start-Up. Though the core area of Niwesh Tech is off-grid pure solar power plant, starting from 3 KW to 54 KW (*Niwesh Tech also provides custom off-grid solar power solutions up to 100 KW*), the prime focus in the initial years is to invent, develop, create, and manufacture solar powered products for the underprivileged, rural and remote areas.

Energy crisis, due to several factors, like the ever-rising demand (*to be increased many folds due to Electric Vehicles*) and shortage of resources like coal etc. is going to hit the entire world maybe sooner than we can imagine. Solar power may be the solution to the forthcoming crisis, besides slowing down the climate change.

### **Grid-Tie and Off-Grid Solar Plants**

In Western, developed nations, there is no concept of "Power failure" and their Grid System is smart, which manages itself as per available power and load. Their connectivity to each other makes them highly efficient. Whereas, in our Nation (India) and in other developing countries, the Grid is not "smart" meaning it does not do two-way communication with the household and the power plant. So, in developed countries Grid-Tie Solar Power Plant is successful, whereas in our Nation, this Grid-Tie System will sooner or later make the grid fail in peak hour of optimum solar power (*which has already started happening in few states*).

Grid -Tie System has another major drawback, the solar plant will generate electricity only when the utility power (Grid electricity) is available. In case of power failure, Grid-Tie Solar Plant will not generate electricity. Moreover, the electricity generated by the Grid-Tie system can't be used for domestic or industrial use as the AC voltage is highly fluctuating (from 90 to 280 Voltage). Off-Grid Solar Plant means that one can use the electricity generated by the solar plant for domestic as well as industrial use as a stand-alone unit without need of grid power supply. The Off-Grid Solar Power technology is in its infancy and most of the company dealing in Off-Grid Solar Plant don't have the technology to run heavy induction-based loads like Air -Conditioners, or heavy machinery.

Niwesh Tech has developed in-house Off-Grid smart Solar Power System that runs almost everything like Air-Conditioners, Washing Machine, Microwave Oven, Induction Plate etc. for domestic use. For Industrial use, our Off-Grid Solar Plant also runs welding machines, heavy motors, heavy cutters, etc. purely on Solar Power.

Off-Grid Solar Power Plant being stand alone is also ideal for places with high natural calamities

**Distributorship / Dealership enquiry solicited**  
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## Our Products and Price list\*

(\*Valid for 2022-2023) ACTUAL.

Sl.	Product & description	GST	Distributor Price & MOQ	Dealer Price & MOQ	MRP (inclusive of all taxes)
1	<b>Angel</b> Rechargeable Power System	18%	[Redacted Price Information]		7,350/-
2	<b>Ru</b> Solar Power System	12%			12,350/-
3	<b>Wonder-I</b> 24x7, clean electricity Solar Power System	12%			28,999/-
4	<b>ESP-3030</b> Hybrid Solar Power System	12%			3,25,000/-#
5	<b>SPS- 3550</b> Off-Grid Solar Power Plant (Battery-less*) 24 Volt	12%			5,00,000/-#
6	<b>SPS- 5560</b> Off-Grid Solar Power Plant (Battery-less*) 48 Volt	12%			7,25,000/-#
7	14 Volt , 2 Amp SMPS, 12 Volt Lead-Acid Battery Charger	18%			950/-
8	<b>9 Watts</b> Solar DC LED Bulb	12%			108/-
9	<b>Solar / DC Fan</b> 12 watts	18%			1350/-
10	<b>Solar / DC Fan</b> 24 watts	18%			1550/-

\* Above mentioned prices may change without prior notice as per circumstance.

Please re-check with us, before placing the order.

# MRP includes installation charges , but it has to be born by the Distributor / Dealer.\* T&C

\*100 % advance payment against PI. Delivery within 15 days to 90 days depending on the products and quantity. Excluding transportation charges as per actual.

**Business enquiry**  
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