



RITIKA

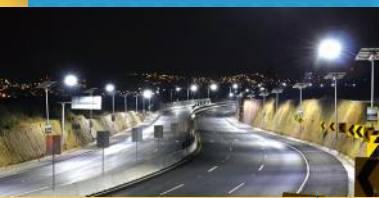
MNRE
CRISIL GRADE

2017-2019

SP 1A

SOLAR SOLUTIONS

32⁺
Years
of Experience



Backed by more than
Three Decades
of Experience

Ritika Systems Pvt. Ltd.

An ISO-9001, ISO-14001,
OHSAS-18001

CE notified, RoHS compliant,
SGS CERTIFIED &

Government Recognized Company



DELHI | UP | HP | HARYANA | RAJASTHAN | PUNJAB | NEPAL | J & K | AFGHANISTAN



OUR ESTEEMED CLIENTS



Our Certifications



IEC 62804 (PID)

IEC 50001

SP 1A Rated Channel Partner

ISO 14001

IEC 61215

NSIC Registered

OHSAS 18001

GRADE A Solar Organisation

CE Notified

ISO 9001

RoHS Certified

IEC 61730 ED 1 & 2

IEC 61701 for Salt Mist Corrosion



Solarizing
Lives

RSPL: NABARD AC SYSTEM

Solar Power Packs/ Solar Home Light System(AC Model)		200 Watt System		250 Watt System		300 Watt System	
Sr. No.	Item	Specs	Qty/m	Specs	Qty/m	Specs	Qty/m
1	Solar Panel	200 Wp	200	250 Wp	250	300 Wp	300
2	Solar Battery (6LMS L)	12V- 75Ah (5 Years)	2	12V-100Ah (5 Years)	2	12V-120Ah (5 Years)	2
3	Solar Inverter	12/24 V 300 Va	1	12/24 V 300 Va	1	12/24 V 300 Va	1
4	Battery Box	Plastic	2	Plastic	2	Plastic	2
5	Structure for Module	1	200	1	200	1	300
6	Wire for Solar Panel	-	20	-	20	-	20
7	Hardware	-	1	-	1	-	1
8	Warranty Card & Operation Manual	As Per specs	2	As Per specs	2	As Per specs	2
9	Packing Cost	As Per specs	1	As Per specs	1	As Per specs	1
10	Extra Port for Mobile Charging & radio	-	1	-	1	-	1

Why NABARD Systems

- **Reduction in burgeoning electricity bills**
The plant shall also save money during peak hours when the electricity is charged at a higher rate
- **Bringing Light where there is none**
The solar home lighting systems helps in bringing light to the most remote places
- **Govt. subsidy on solar Installation**
The Indian government gives upto 40% subsidy on solar installations*
- **Easy Installation and Maintenance**
Very easy to install and maintain, these NABARD systems are a boon to every user

RSPL: NABARD DC SYSTEM

Solar Power Packs/ Solar Home Light System		75 Watt System		100 Watt System		150 Watt System	
Sr. No.	Item	Specs	Qty/m	Specs	Qty/m	Specs	Qty/m
1	Solar Panel	75 Wp	75	100 Wp	100	150 Wp	150
2	Solar Battery (6LMS L)	12V-60 Ah (5 Years)	1	12V-75 Ah (5 Years)	1	12V-125 Ah (5 Years)	1
3	Charge Controller	12V, 5A	1	12V, 10A	1	12V, 15A	1
4	LED Luminary	3W	3	3W	3	3W	3
5	LED Luminary	6W	2	6W	2	6W	2
6	Battery Box	Plastic	1	Plastic	1	Plastic	1
7	Structure for Module	1	75	1	100	1	150
8	Wire for Solar Panel	9*2+4	15	9*2+4	15	9*2+4	15
9	Hardware	-	1	-	1	-	1
10	Warranty Card & Operation Manual	As Per specs	2	As Per specs	2	As Per specs	2
11	Packing Cost	As Per specs	1	As Per specs	1	As Per specs	1
12	Extra Port for Mobile Charging & radio	-	1	-	1	-	1
Extra							
13	1 DC Fan	12V/20 Watts	1	12V/20 Watts	1	12V/20 Watts	1

- **Great Power Backup**
All our NABARD Home Lighting Systems have excellent backup of 4-5 hours
- **Eco-Friendly**
Make way for an eco-friendly source of constant energy lasting for your life time
- **5 years Warranty**
5 Years Warranty on the system ensure that the light never runs out of power
- **Extensive Dealer Network**
All our dealers are 3S ie Service, Sales and spares. We serve you through our 100+dealers

*Conditions Apply

For Trade Related Enquiries:

Ritika Systems Pvt Ltd

Corporate Office: C-22/18, Sector 57 Noida-201301, UP

Phone No: 0120-4298921,
4553597, 4327385
Email : info@ritikasystems.in
www.ritikasystems.in



Solarizing Petrol Pump

Solar Solutions that actually work 3,5,7, Kw Solar Power Plants

Why Solar

Module RITIKA make	3KW
PCU RITIKA Make	48V-3KVA
Battery Exide make (6LMS 150L - 8 Nos.)	48V-300Ah
2 Nozzles - 1hp each for 4 Hours 300W Lighting/other loads for 4 hours	

Module RITIKA make	5KW
PCU RITIKA make	96V-5KVA
Battery Exide make (6LMS 150L - 16 Nos.)	96V-300Ah
3 Nozzles - 1hp each for 4 Hours 1 Nozzle - 0.5hp for 4 hours 300W Lighting/other loads for 4 hours	

Module RITIKA make	7KW
PCU RITIKA make	120V-7KVA
Battery Exide make (6LMS 150L - 20 Nos.)	120V-300Ah
5 Nozzles - 1hp each for 4 Hours 300W Lighting/other loads for 4 hours 5 Nozzles - 1hp each for 4 Hours	

- **Huge reduction in burgeoning electricity bills**
The petrol pump shall also save money during peak hours when the electricity is charged at a higher rate
- **Quick and higher ROI**
The solar package provides greater Returns on investment (ROI) to the petrol pump owner
- **Easy option of Grid tie solar systems that eliminate the use of batteries**
Since most petrol pumps offer only day time operations, grid tie solar systems become easy option for these pumps. The grid tie systems offer 98/ efficiency in deriving solar power
- **Eco-Friendly**
- **No extra space required for the system**
Only the PCU/ Inverter and batteries (in case of off grid systems) require storage space.

*Conditions Apply

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Solar PCU

Solar Solutions that actually work 3,5,7, Kw Solar Power Plants

Ratings	150 VA	300VA	500 VA	1 KVA	2 KVA
Model No.	RPCU12-150	RPCU12-300	RPCU12-500	RPCU24-1K	RPCU48-2K
Technology	Micro Controller Based Using MOSFETS				
Nominal Input Voltage	12 V			24V	48V
Battery	100 Ah	150 Ah	200Ah to 300Ah	300 Ah to 600 Ah	300 Ah to 600 Ah
Ac mains range	180V AC -270V AC				
Max. Mains Chg. Current	06 A		10 A		10 A
Wave form type	Sine Wave				
Inverter Type	B-Directional				
O/P Voltage Regulation	230V ± 2%				
Output Frequency	50Hz ± 0.5 Hz				
Inverter Frequency	> 85%				
THD	<5% (On Linear load)				
Type	PWN Type Series Regulator (ve Common)				
Max. array Voltage	25V		45V		85V
Max. Charging Current	20A		40A		
Idle current	<10mA			<10mA	
Temperature Compensation	-3mA to -5mA / °C / cell				
Over Load Features	125% for 1 minute				
Operation Mode	PCU must be designed to work in : 1. Stand Alone mode 2. Hybrid Mode 3. Off Line Mode (500 VA, 1KVA & 2 KVA)				
Indications	Inverter Overload Grid Chg. On, PV Chg. Battery Voltage Low Inverter short circuit over Load battery under/over voltage No load shutdown				
Protections	Input over/under voltage short circuit loadburge current, PV Reverse Polarity Over load, over temperature, under/over output voltage battery low trip battery over charging, battery reverse polarity.				
Cooling	DC Fan 'ON' at > 25% Load				
Display	Display on LED		Display on LCD (rolling)		
	Inverter On Mains ON PV charging Mains Charging Battery Low Over Load PV Reverse Short Circuit		RITIKA Initialising, Solar PCU off/on, Mains On, High Battery Voltage, PV Voltage, PV chg. Current, Mains current, Load Current or % Load, O/P Ac Voltage, Over load, Shortcircuit, Low Battery, No Load Shutdown		
Ingress Protection	IP – 20/ IP-21				
Dimensions (mm)	300*210*270		380*230*390		

RSPL Solar PCU



• **Latest Technology at the core**
RSPL PCU's have the latest technology at its heart.

• **Easy to install**
RSPL PCU's are easy to install with minimum charges required,

• **Easy to maintain**
RSPL PCU's are performance certified with very low maintenance. Just install and forget.

• **Eco-friendly**

• **Friendly indications for easy readings**

• **Operates in all three modes**

• **Highest Inverter Efficiency in its class***

• **Guaranteed Performance**

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Lighting up Villages

Solar Home Lighting Solutions that actually work...

Why Solar



- Highest experience in India
Thousands of Solar Home Lighting Systems supplied across the length and breadth of the country
- Eco-Friendly
- Plug and play system
System can be easily enhanced with minimal charges
- Provision of Mobile Charging

GENERAL SPECIFICATIONS

CFL				
	I	II	III	IV
System Voltage	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC
Solar PV module	18 Wp	37Wp	74Wp	74Wp
Battery Lead Acid at C/10 rate	20Ah	40Ah	40Ah	75Ah
Luminaire CFL09 W	1 No.	2 Nos.	2 No.	4 Nos.
Charge Controller 12V – 10A	1 No.	1 No.	1 No.	1 No.
DC Fan 12V – 12W	---	---	1 No.	---
LED				
	I	II	III	IV
System Voltage	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC
Solar PV module	06 Wp	12Wp	24Wp	24Wp
Battery Lead Acid at C/20 rate	07Ah	12Ah	20Ah	20Ah
Luminaire LED - 03 W	1 No.	2 Nos.	2 No.	4 Nos.
Charge Controller 12V – 05/10A	1 No.	1 No.	1 No.	1 No.
DC Fan 12V – 10W	---	---	1 No.	---

MNRE Approved

*Conditions Apply

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Solarizing Industries

Solar Solutions that actually work 7,10,20 Kw Solar Power Plants

Why Solar

Module RITIKA make	7KW
PCU RITIKA make	120V-7KVA
Battery Exide make (6LMS 150L - 20 Nos.)	120V-300Ah
3500 W Lightening/other loads for 6 hours*	

- **Huge reduction in burgeoning electricity bills**
The shall also save money during peak hours when the electricity is charged at a higher rate

- **Quick and higher ROI**
The solar package provides greater Returns on investment (ROI) to the petrol pump owner

- **Tax Benefits**
Investment in solar helps in saving tax as one can enjoy the benefits of accelerated depreciation of 40%, 40% and 20% in consecutive three years.*

- **Easy option of Grid tie solar systems that eliminate the use of batteries**
Since most offer only day time operations. grid tie solar systems become easy option for these pumps. The grid tie systems offer 98% efficiency in deriving solar power.

- **Eco-Friendly**

- **No extra space required for the system**
Only the PCU/ Inverter and batteries (in case of off grid systems) require storage space.

Module RITIKA make	7KW
PCU RITIKA make	120V-7KVA
Battery Exide make (6LMS 150L - 20 Nos.)	120V-300Ah
3500 W Lightening/other loads for 6 hours*	

Module RITIKA make	20 KW
PCU RITIKA Make	240V-20KVA
Battery Exide make (6LMS 150L- 60 Nos.)	240V-600Ah
10000 W Lightening/other loads for 6 hours*	

NOTE: Larger Solar Power Plant can be designed as per your requirement.

*Conditions Apply

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Solarizing Homes

Solar Solutions that actually work...
India's Oldest Solar Lantern Manufacturer

Why Solar

- Extends the Working day in rural areas**
 Installing Solar Lights in villages allows businesses to operate during the evening.
- Improves Health Issues**
 Fumes from Kerosene lamps in poorly ventilated houses are a serious health problem in much of world where electric light is unavailable
- Improves Fire-Reduction**
 Kerosene lamps are a serious fire hazard in the developing world. Killing and maiming tens of thousands of people each year. Solar electric light comes as the safest measure for all.
- Improves Literacy rate**
 Solar light improves literacy. Because people can read after dark more easily than can by candle or lamp light.
- Save Energy**
- Reduces Maintenance**
 Use of a solar light rather than Kerosene lamps reduces the time and expense of refueling and maintenance.
- Reduces Local air pollution**
 Use of solar electric systems decrease the amount of local air pollution.
- Increases effectiveness of health program**
 Solar electric systems improve patient diagnoses through brighter task lighting.

*Lantern supplied by RSPL to TERI in the image

GENERAL SPECIFICATIONS

Housing material	ABS
Chimney Materials	Acrylic / Polycarbonate
Lamp	5/7 Watts CFL in 2/4 pin 6/12V – 2.25/03 Watts LED in Circular or Vertical fashion
SPV Module	5/6/10/12 Wp module depending upon the model
Module Options	8 / 10 / 12 Wp
Voltage Options	6/12 Volts Dc Nominal
Battery Options	6V – 4.5 Ah Sealed Maintenance Free lead Acid type or 12 V – 7 Ah Sealed maintenance free
Protections	Battery deep discharge, Battery Over Charging, Reverse Polarity
Indications	Charging 'ON' , Battery deep discharge, Battery overcharge
Hours of Lighting	4 to 6 hours depending upon lamp battery and module
Weight	4 to 5.5 Kg

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Solarizing RoofTops

Solar Solutions that actually work
3,5,7,10 KW Solar Power Plants

Why Solar

Module RITIKA make	3KW
PCU RITIKA Make	48V-3KVA
Battery Exide make (6LMS 150L - 8 Nos.)	48V-300Ah
1500 W Lightening/other loads for 6 hours*	

Module RITIKA make	5KW
PCU RITIKA make	96V-5KVA
Battery Exide make (6LMS 150L - 16 Nos.)	96V-300Ah
2500 W Lightening/other loads for 6 hours*	

Module RITIKA make	7KW
PCU RITIKA make	120V-7KVA
Battery Exide make (6LMS 150L - 20 Nos.)	120V-300Ah
3500 W Lightening/other loads for 6 hours*	

Module RITIKA make	10 KW
PCU RITIKA Make	48V-3KVA
Battery Exide make (6LMS 150L - 60 Nos.)	48V-300Ah
5000 W Lightening/other loads for 6 hours*	

- **Huge reduction in burgeoning electricity bills**
The shall also save money during peak hours when the electricity is charged at a higher rate

- **Quick and higher ROI**
The solar package provides greater Returns on investment (ROI) to the owner

- **Govt . subsidy on solar installation**
The Indian government gives 30% subsidy on solar installations*

- **Easy option of Grid tie solar systems that eliminate the use of batteries**
Since most petrol pumps offer only day time operations. grid tie solar systems become easy options for these pumps. The grid tie systems offer 98% efficiency deriving solar power

- **Eco-Friendly**

- **No extra space required for the systems**
Only the PCU/Inverter and batteries (in case of off grid systems) require storage space.

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Solarizing Streets

Solar Solutions that actually work
India's Oldest Solar Street Light Manufacturer

Why Solar

- **Huge reduction in burgeoning electricity bills**
The street Light shall also save money during peak hours when the electricity is charged at a higher rate
- **Safety**
Increased safety for people by lighting up unlit areas
- **Eco-Friendly**

System Voltage	12 Volts DC
Solar PV Module	74/75 Wp
Battery Lead Acid at C/10 rate	75/80 Ah
Luminaries CFL- 11 W	1 No.
Battery Box (PPCP)	1 No.
Module Mounting with 5 m Pole	1 Set
Hardware/ cable set	1 Set
DC Solar CFL street Lighting (MNRE Approved)	

System Voltage	12 Volts DC
Solar PV Module	40/74/75/100/125/150 Wp
Battery Lead Acid at C/10 rate	40 Ah
Luminaries LED- 09 W	1 No.
Battery Box (PPCP)	1 No.
Module Mounting with 5 m Pole	1 Set
Hardware/ cable set	1 Set
DC Solar LED street Lighting (MNRE Approved)	



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PROJECTS



HPCL.



OBC Bank, Gurugram



Rajasthan



Power Grid Delhi



Barefoot College, Tilonia



AFS station Bhopal



Prakash Diesel



DPS Rewari



Empaneled with HPCL for solarizing 35 Sub-Stations each with 14 Kwp Solar Plant



CMC Hospital Hisar



Kidzania Noida

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RITIKA



Ritika Systems Pvt Ltd

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C-22/18, Sector 57 Noida -201301, UP

Works 1

**G-166 Industrial Area
Neemrana Phase –II, Raj**

Works 2

**Plot No 17, Sector-15, Phase –II ,
IMT Bawal, Haryana**

Works 3

C-22/18, Sector 57, Noida-201301, UP

Phone No : 0120-4298921, 4553597, 4327385

Email: info@ritikasystems.in, Website: www.ritikasystems.in