

Introducing NoorBox

By NoorNation
Our Latest innovation



Plug & Play Solar Power Anytime, Anywhere



Creativa Innovation Hub, Dokki, Giza, Egypt - 2nd
Floor - Office 111 Opposite to Cairo University



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NoorNation, a renewable energy startup based in Egypt, is committed to providing decentralized infrastructure solutions for underserved regions in Egypt and Sub-Saharan Africa. NoorNation offers innovative renewable energy systems and addresses the challenges of energy and water scarcity in remote agricultural areas by providing clean electricity and water through Life Box unit.









NoorBox is a solar-powered unit designed to provide reliable, uninterrupted electricity for homes and businesses. With its portable design and easy setup, NoorBox is a convenient and efficient solution for power outages. Equipped with ready-to-use PV panels, it offers instant power and a secure, locked enclosure for added protection. NoorBox comes in various models, including Basic, Plus, Pro, and Pro+, to cater to different needs. The NoorBox is a useful option for homes, offices, and businesses, ensuring seamless power supply during grid failures.

NoorBox Versions

Discover the perfect NoorBox model for your needs

version	Consumption	PV Panels
NB02-24	1200 Wh 	1x 
NB02-24	2050 Wh 	2x 

version	Consumption	PV Panels
NB2.8-24	2800 Wh 	4x 
NB04-24	4040 Wh 	4x 
NB5.5-24	5530Wh 	6x 







Basic





Plus

Pro

Pro+



version	Consumption	PV Panels
NB7.5-48	7490 Wh 	6x 
NB10-48	10,000 Wh 	8x 


version	Consumption	PV Panels
NB12-48	12,520 Wh 	8x 
NB15-48	15,005 Wh 	10x 



NoorBox Versions

1. Basic

The Basic Version of NoorBox offers dependable and continuous power supply for residential and commercial applications. It includes PV panels with a capacity of **1 kWp** and lithium iron phosphate battery capable of storing and delivering up to **2.8 kWh**.

 Technical Specifications	
Model Name	NoorBox Basic
Unit Code	NB02-24
PV power modules (kWp)	1.1
Battery usable capacity(Wh)	2400
Load Energy Consumption (kWh/day)	2
Weight (kg)	70
Module Dimensions (L*W*H) cm	70*45*130
PV input	
Solar charger type	MPPT
MPPT voltage range (VDC)	30-115
Maximum open circuit voltage (VDC)	145
Maximum input capacity (W)	1500
Maximum charge current (A)	60

Load Profile

	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	3	10	30	12	360
Fans	1	70	70	7	490
Router	1	35	35	8	280
Phone Charger	3	30	90	4	360
TV+ receiver	1	140	140	4	560
Total			365		2,050

NoorBox Versions

2. Plus

The Plus Version of NoorBox is available in three sub-versions: **NB2.8-24**, **NB04-24**, and **NB05.5-24**. It provides reliable and continuous power supply for both residential and commercial applications. This model includes PV panels with a capacity up to **3 kWp** and lithium iron phosphate battery capable of storing and delivering up to **4.8 kWh**.

Technical Specifications			
Model Name	NoorBox Plus		
Unit Code	NB2.8-24	NB04-24	NB5.5-24
PV power modules (kWp)	2.2	2.2	3.3
Battery usable capacity(Wh)	2400	4800	4800
Load Energy Consumption (kWh/day)	2.8	4	5.5
Parallel Connection Support	-	-	-
Weight (kg)	70	90	
Module Dimensions (L*W*H) cm			
PV input			
Solar charger type	MPPT		
MPPT voltage range (VDC)	120-450		
Maximum open circuit voltage (VDC)	500		
Maximum input capacity (W)	4000	4000	4000
Maximum charge current (A)	100		

Load Profile

2.1 NB2.8-24

	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	4	10	40	12	480
Fans	2	70	140	8	1,120
Router	1	35	35	8	280
Phone Charger	3	30	90	4	360
TV+ receiver	1	140	140	4	560
Total			445		2,800

2.2 NB04-24

	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	3	10	30	12	360
Fans	1	70	70	5	350
TV+ Receiver	1	140	140	4	560
Router	1	35	35	8	280
Phone charger	1	30	30	3	90
Fridge	1	300	300	8	2,400
Total			605		4,040

2.3 NB5.5-24


	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	3	10	30	12	360
Fans	2	70	140	5	1,120
TV+ Receiver	1	140	140	4	1,120
Router	1	35	35	8	350
Phone charger	2	30	60	3	180
Fridge	1	300	300	8	2,400
Total			705		5,530

NoorBox Versions

3. Pro

The Pro Version of NoorBox is available in two sub-versions: **NB7.5-48** and **NB10-48**. It provides reliable and continuous power supply for both residential and commercial applications.

This model includes PV panels with a capacity up to **4 kWp** and lithium iron phosphate battery capable of storing and delivering up to **9.6 kWh**.

 Technical Specifications		
Model Name	NoorBox Pro	
Unit Code	NB7.5-48	NB10-48
PV power modules (kWp)	3.3	4.4
Battery usable capacity(Wh)	9600	9600
Load Energy Consumption (kWh/day)	7.5	10
Parallel Connection Support	Yes	
Weight (kg)	140	
Module Dimensions (L*W*H) cm	95*50*130	
PV input		
Solar charger type	MPPT	
MPPT voltage range (VDC)	120-430	
Maximum open circuit voltage (VDC)	500	
Maximum input capacity (W)	6000	
Maximum charge current (A)	120	

Load Profile

3.1 NB7.5-48

3.2 NB10-48

	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	7	15	105	10	1,050
Fans	3	60	180	7	1,260
TV+ Receiver	1	160	160	5	800
Router	1	35	35	24	840
Power Sockets	11	30	330	2	660
Fridge	1	300	300	8	2,400
Laptop	1	60	60	3	180
Kettle	1	1,000	1,000	0.3	300
Total			2,170		7,490


	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	8	15	120	10	1,200
Fans	3	60	180	8	1,440
TV+ Receiver	2	160	320	7	2,240
Router	1	35	35	24	840
Power Sockets	11	50	550	2	1,100
Fridge	1	300	300	8	2,400
Laptop	1	60	60	3	180
Kettel	1	1,000	1,000	0.6	600
Total			2,565		10,000

NoorBox Versions

4. Pro +

The Pro + Version of NoorBox is available in two sub-versions: **NB12.5-48** and **NB15-48**. It provides reliable and continuous power supply for both residential and commercial applications.

This model includes PV panels with a capacity up to **5 kWp** and lithium iron phosphate battery capable of storing and delivering up to **13.44 kWh**.

 Technical Specifications		
Model Name	NoorBox Pro +	
Unit Code	NB12.5-48	NB15-48
PV power modules (kWp)	4.4	5
Battery usable capacity(Wh)	13,440	13,440
Load Energy Consumption (kWh/day)	12.5	15
Parallel Connection Support	Yes	
Weight (kg)	140	
Module Dimensions (L*W*H) cm	95*50*130	
PV input		
Solar charger type	MPPT	
MPPT voltage range (VDC)	120-430	
Maximum open circuit voltage (VDC)	500	
Maximum input capacity (W)	6000	
Maximum charge current (A)	120	

Load Profile

4.1 NB12.5-48

4.2 NB15-48

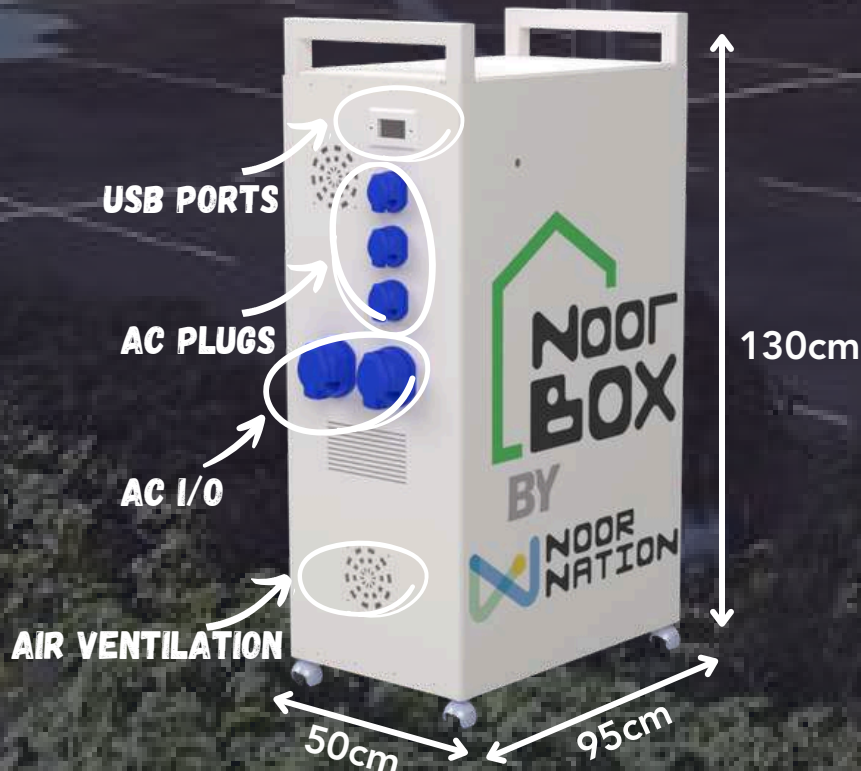
	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	10	18	180	8	1,440
Fans	3	60	60	8	1,440
TV+ Receiver	1	160	160	7	1,120
Router	1	35	35	24	840
Power Sockets	5	50	50	2	500
Fridge	1	300	300	8	2,400
Laptop	1	60	60	3	180
Kettle	1	1,000	1,000	0.9	900
Deep Freezer	1	750	750	4	3,000
Washer	1	350	350	2	700
Total			2,170		12,520

	Number	Power (W)	Total power (W)	working hours	Needed Energy (Wh)
LEDs	15	18	270	8	2,160
Fans	4	60	240	8	1,920
TV+ Receiver	1	160	160	7	1,120
Router	1	35	35	24	840
Power Sockets	17	50	850	2	1,700
Fridge	1	300	300	8	2,400
Laptop	1	60	60	3	180
Kettel	1	1,000	1,000	0.9	900
Deep Freezer	1	750	750	4	3,000
Washer	1	350	350	2	700
Mixer	1	500	500	0.17	85
Total			4,515		15,005

NoorBox Versions

All NoorBox versions comes with a AC plugs, power sockets, and USB port

AC Output	
I/O voltage (V)	220
Output frequency (Hz)	50
Transfer time	20 ms (for home appliances)
	10 ms (for personal computers)
Wave form	Pure sine wave
Protection	
AC/DC Protection	Available
Air ventilation	Available
Fire protection	Available
String array LED indicator	Available
Specifications	
USB Ports	2 Ports available
AC plugs	3 Ports available



NoorBox Project References

1. Linah Farms Green school – Bahariya Oasis 28-Aug-24 Unit code: NB10-48

NoorBox Pro with a capacity of 3.3 kWp It supports all school loads such as lighting, fans, and laptops with a total daily energy consumption of 10.4 kWh, and a 280Ah-48V long lasting GE lithium-iron phosphate battery with a 10-year lifespan



2. NoorNation Factory – Abu Rawash Industrial Zone, Giza, Egypt

28-Jul-24

NoorBox with multiple capacities up to 5 kWp It supports daily energy consumption up to 15 kWh, and long lasting GE lithium-iron phosphate battery with a 10-year lifespan.



Local, Regional, and International Awards and Media Highlights for NoorNation.



Right: Eng. Ragy Ramadan, Founder and CEO of NoorNation for Renewable Energy, receiving the first-place award nationwide in the Presidential Initiative for Smart Green Projects from the Prime Minister.
Left: Her Excellency Dr. Hala El-Said, Minister of Planning and Economic Development November 3, 2022.

The Global SolarX Alliance Award for the Best Innovative and Scalable Solar Energy Company in Africa.



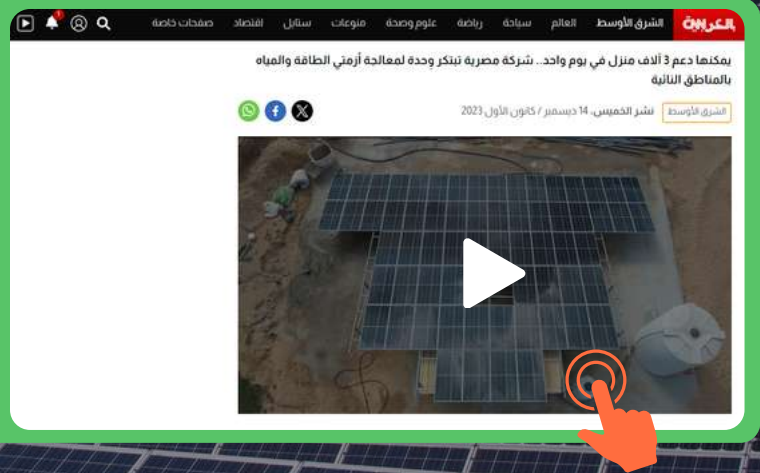
Interview on the German ARD channel.

Local, Regional, and International Awards and Media Highlights for NoorNation.

The Swiss "One Creation" Award for Environmental Innovation, First Place Worldwide.



Media Appearance on CNN Arabic.



Best Young Inventors Under 30 Award from UNICEF.



Thank you!

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