



EPS BOX

Simplicity | Security | Quick response

Three Things About EPS Box

- EPS Box provides an automated changeover solution for the inverter's EPS off-grid output function.
- Two different boxes satisfy all customers' application of single-phase and three-phase off-grid functions.
- No need to change the original home power supply lines when installing our Hybrid system, the connection operation is simple and convenient, plug & play, no need to do other setting.



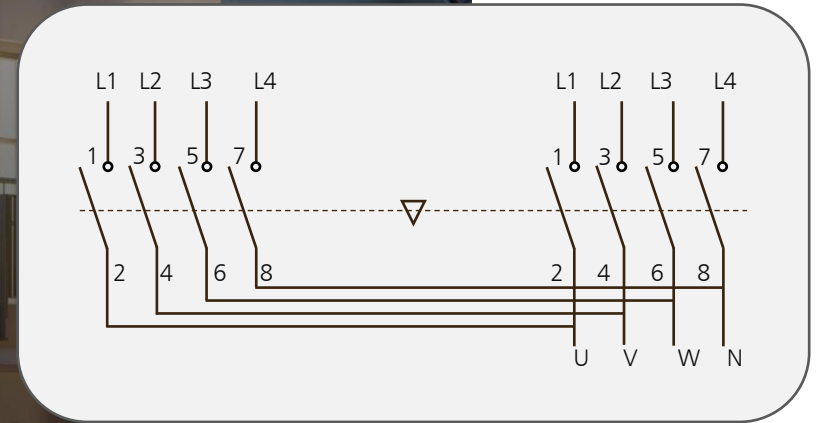
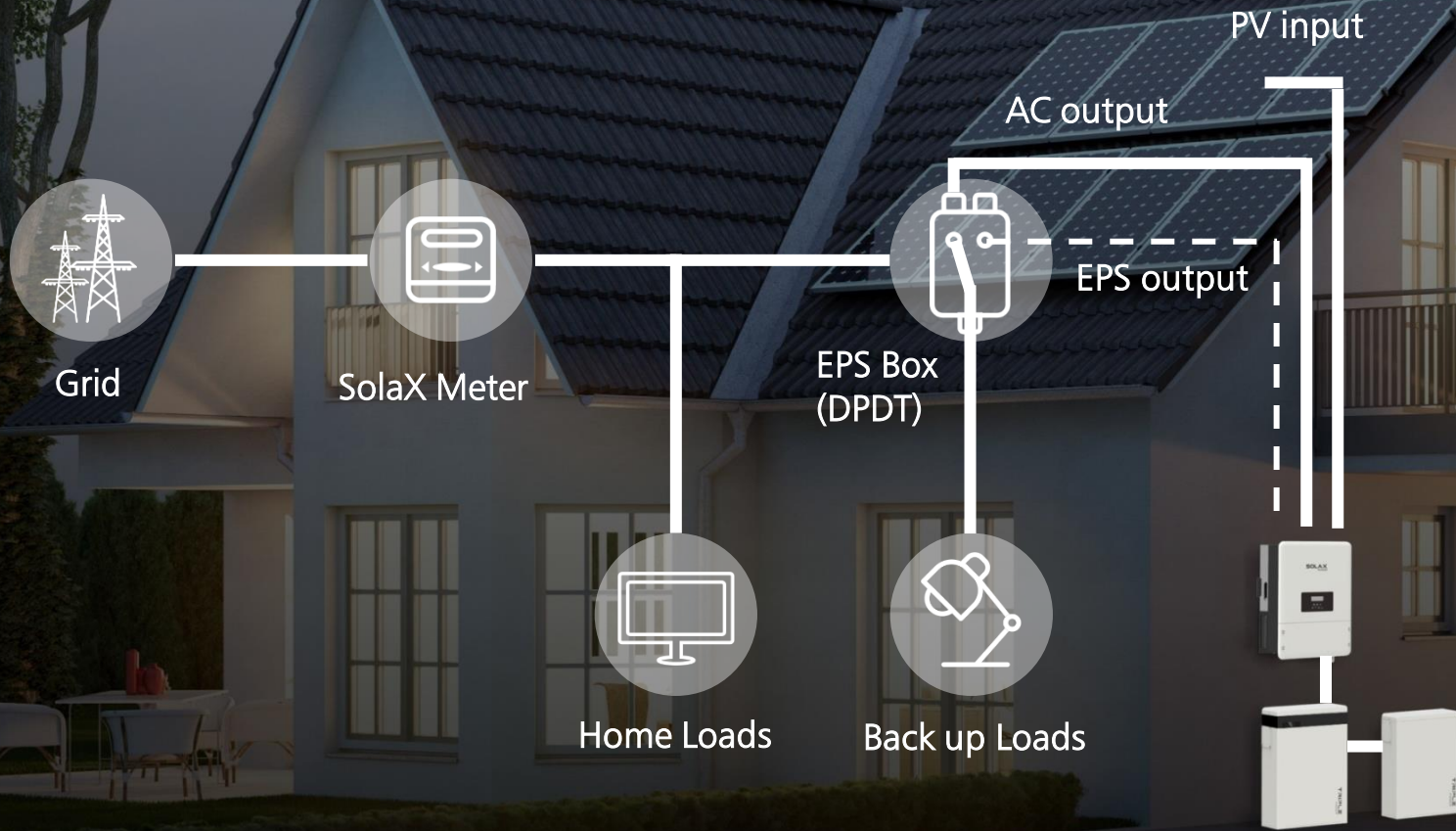
X1 EPS BOX



X3 EPS BOX

Suitable for X1 & X3-HYBIRD INVERTER

System Diagram



Inside Of EPS Box

Alternating Current Contactor



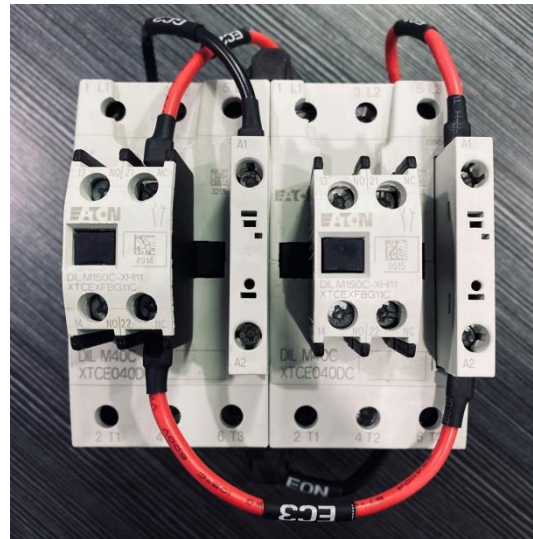
X3-EPS Box

- Brand

Nader 良信电器

- Model

NDC1(N)-6540 NF 1




X1-EPS Box

- Brand

EATON
Powering Business Worldwide

- Model

DILM 40C(220-230 50Hz)



EPS Box Working Environment



Ingress
protection

- Saline-alkali environmental protection
- IP65 outer casing protection grade



Working
Temp

- Storage Temp: $-60^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Operating Temp: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Limiting operating Temp: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$



Operating
Altitude

- Normal use: $\leq 3000\text{m}$
- Limit use: $\leq 5000\text{m}$



Humidity

- Storage Temp: $-60^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Operating Temp: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Limiting operating Temp: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$

SPECIFICATIONS

MODEL		DIL M40C	NDC1(N)-6540-NF 1
Nominal Operating Current (Ie/A)	MAX EPS input current(A)	60	3*63
	MAX AC input current(A)	60	3*63
	MAX output current(A) @On Grid	60	3*63
	MAX output current(A) @EPS mode	60	3*63
Rated Grid Voltage(V)		220~230	3/N/PE~400/380
Rated Grid Frequency(Hz)		50/60	50/60
Operating Temperature range (°C)		-20~+60	-20~+60
(General Data)	Dimension(mm)	115*110*147	300*220*170
(Electrical data)	Electrical life(Times)	1.2*10 ⁶	1.2*10 ⁶
	Maximum power of controllable loads (kW)	12.5	15

Unique Selling Proposition



Automatically Switch

The changeover device will automatically switch when it detects the black out happened. Switching time will be shortened to 0.5S.



High Protection Level

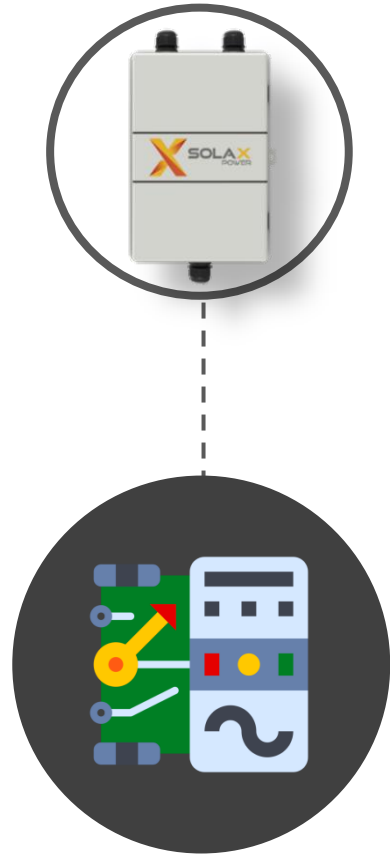
The outer casing adopts IP65 protective level packaging, and can be used for both indoor & outdoor.



Environmental Friendly

Wide application range, low noise, less harmful radiation to the outside, including the shell, the materials used are recyclable

EPS BOX IN FUTURE



The next-generation Hybrid inverter will use the built-in EPS device design

(Reserving external box options)

External X1 & X3-EPS BOX

- Switching time will be more shorter than 0.5s
- Compatible with larger current, which can support more loads
- Communicate with the inverter intelligently, upload real-time data

Build-in EPS Changeover Device

- 20 ms level switching time
- No need to install EPS external box
- Before installing the system, you need to classify the household load

A modern building at night with a large glass facade and a SOLAX solar inverter mounted on the exterior wall. The building is illuminated from within, showing a modern interior with a lounge area. The sky is dark blue, and the grass in the foreground is green.

THANKS

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