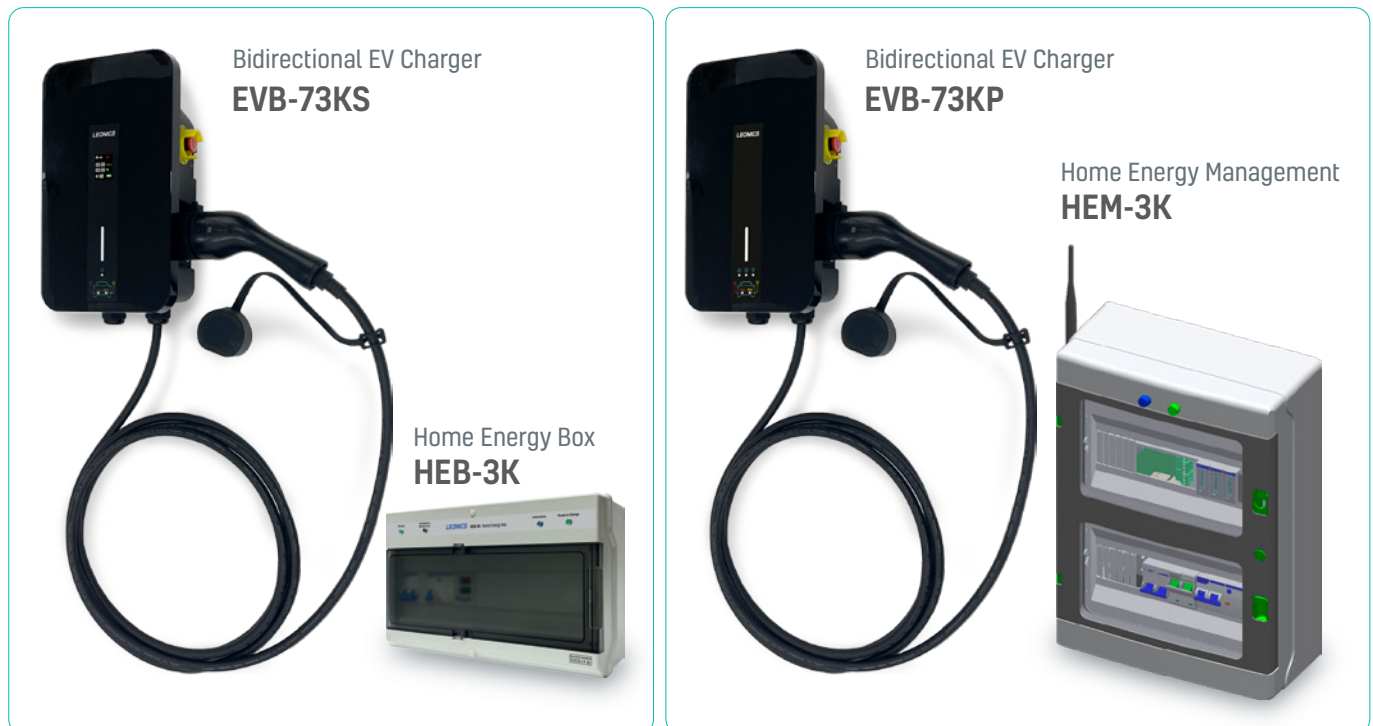


EV Back

EV Charger with Smart Backup Solutions and Home Energy Management

The EV Back is an advanced bidirectional EV charger designed to provide EV charging functionality combined with emergency power backup. It transforms your EV battery into dependable power source for your home, eliminating the need for traditional backup systems and enabling cost-effective energy management.



Key Features

- **Bidirectional Power Flow:** Support both charging [Grid to EV] and discharging [EV to Load].
- **Emergency Power Supply:** Utilizes EV batteries to power essential household loads during outages.
- **Cost Efficiency:** Saves up to 300,000-500,000 THB per household by replacing traditional battery backups.
- **Peak Shaving Capability:** Reduces electricity costs by using EV battery energy during peak rate hours.
- **User-Friendly:** Designed for easy installation.

Advantages

- **Cost Saving:** Avoid the expense of separate energy storage systems by leveraging the EV battery for backup.
- **Enhances Resilience:** Ensure uninterrupted power for essential household loads during outages.
- **Energy Optimization:** Use stored EV battery energy strategically to minimize electricity costs.
- **Battery Preservation:** Consumes only 5-10% of EV battery capacity during peak usage, extending battery life.
- **Future-Ready:** Supports growing energy demands with increased EV adoption.

Why choose EV Back?

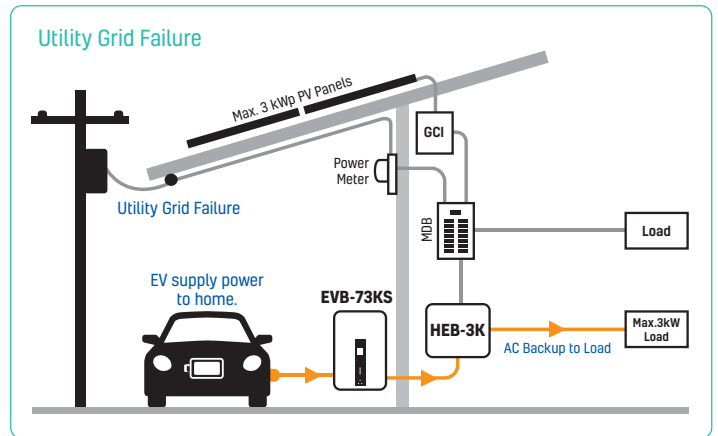
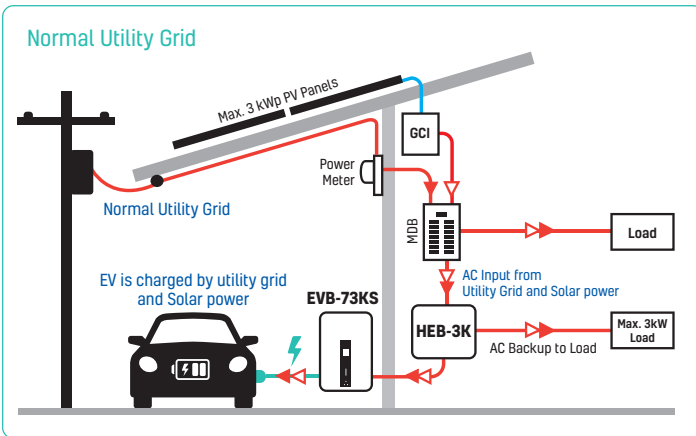
- **Innovation at its core:** Backed by National Innovation Agency Thailand (NIA) and national patent (No.303002527)
- **Affordable and Reliable:** A cost-effective and sustainable energy solution for modern households.
- **Future-Ready:** Aligns with the evolving needs of EV owners and home energy management

Applications

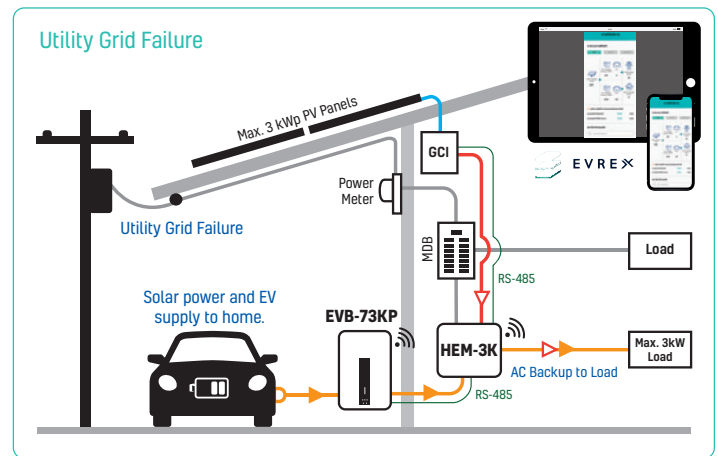
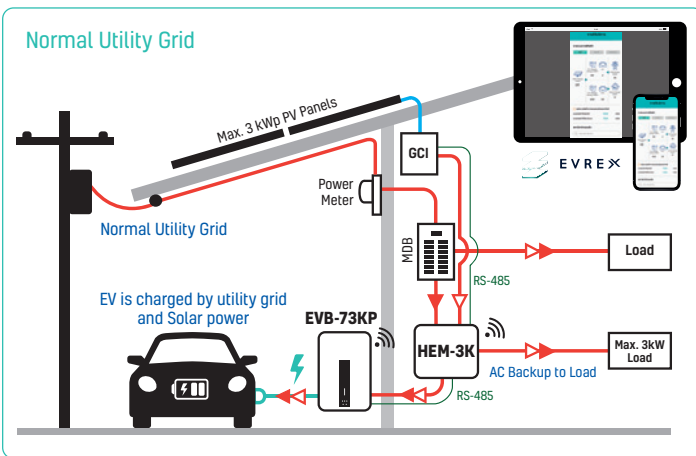
- **Residential EV Charging:** Offers a reliable and versatile solution for home EV charging.
- **Emergency Power Backup:** Keeps critical household systems running during grid failures.

Operation

- **EV Back Standard Set:** EVB-73KS and HEB-3K



- **EV Back Pro Set:** EVB-73KP and HEM-3K



Bidirectional EV Charger		EVB-73KS	EVB-73KP
INPUT	Voltage	220 / 230 Vac $\pm$ 10%	
	Frequency	50 Hz $\pm$ 2%	
	Power supply	TN / TT / IT (1P+N+PE or 2P+PE)	
OUTPUT	Rated power	7 kW	
	Maximum charging current	32 A	
BACKUP	Maximum Power	3 kW (depending on EV)	
	Voltage	220 Vac 50 Hz, Pure sine wave	
USER INTERFACE & CONTROL	LED indicator	Power, Charging, Fault, Status, Charge, Backup, Charge status, Ground fault	Ready, Status, Network, Wifi Connection, Charge status Charge, Backup
	LCD display	Power, Charging status, Charging time, Charging current, Fault alarm	-
	Start mode	Plug & Play	Plug & Play / App
	Ethernet	No	Yes
CONNECTION	Charging connector	Type 2 cable	
	Charging cable length	5 m	
ENVIRONMENT	Operating Temperature	0 ~ 50°C	
	Relative humidity	$\leq$ 95% (non - condensing)	
	Operating altitude	$\leq$ 2,000 m	
SAFETY	Electrical protection	Over current, Over/Under voltage, Over temperature, Ground fault, Short-circuit, Lightning protection, Emergency stop	
	RCD	AC 30mA and DC 6mA	
	Certificate	IEC/EN 61851-1, IEC/EN 62196-1, IEC/EN 62196-2, IEC/EN 61851-21-2	
	Ingress protection	IP65	
	Impact protection	IK10 according to IEC/EN 62262	
PHYSICAL	Installation	Wall-mounted	
	Dimension (W x H x D)	198 x 340 x 130 mm	
	Weight (approx. in kg)	5.3 kg	5.4 kg
Model		HEB-3K	HEM-3K
AC INPUT	Type	Utility grid / Diesel generator	
	Voltage	220 / 230 Vac, 50 Hz, 1 Phase	
	Maximum AC power	3 kW	
	Maximum AC current	13.6 A	
AC OUTPUT	Backup Load	Backup voltage	220 Vac $\pm$ 5%, 50 Hz, 1 Phase
		Max. AC power	3 kW
		Max. AC current	13.6 A
		Wave form	Pure sine wave
		Automatic backup	Load searcher
	EV Charger	Voltage	220 / 230 Vac, 50 Hz, 1 Phase
		Maximum AC power	7 kW
		Maximum AC current	32 A
	TRANSFER TIME	Backup to utility grid	< 1 sec
		Utility grid to backup	< 30 sec (depend on EV)
FUNCTION	Electric power metering	-	Main AC input, AC charge, AC backup
	Operate with PV inverter	-	3 kWp ~10 kWp
	Energy management	-	Home energy management controller
INDICATOR	LED	Information, Ready to Charge, AC Input, AC Output to Backup Load	Information, Ready to Charge, AC Input, AC Output to Backup Load
ENVIRONMENT	Operating Temperature	0 ~ 40°C	
	Relative humidity	0 ~ 95% (non - condensing)	
ENCLOSURE	Ingress protection	IP65	
	Installation	Wall-mounted	
DIMENSION	W x H x D	381 x 230 x 110 mm	296 x 415 x 132 mm
WEIGHT	Approximate in kg	2.7 kg	3.5 kg

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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