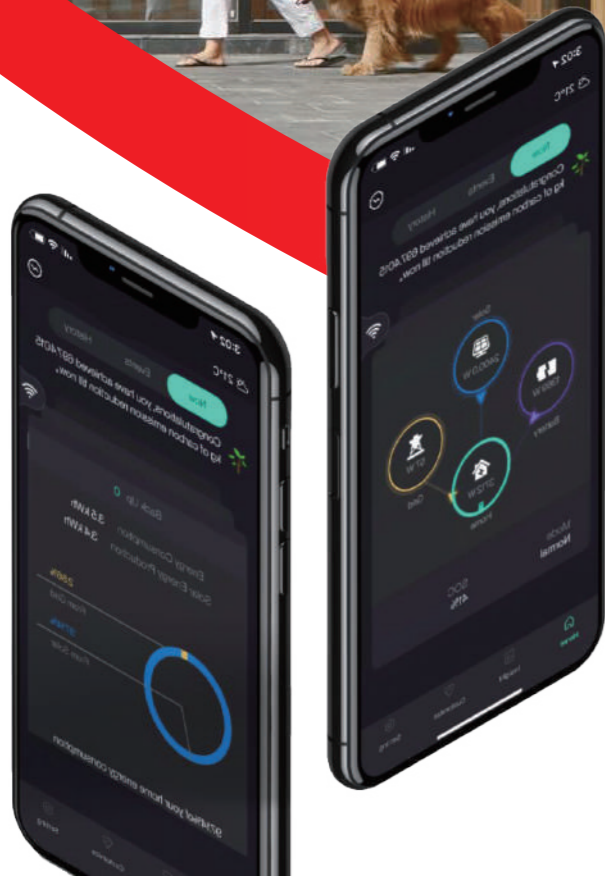
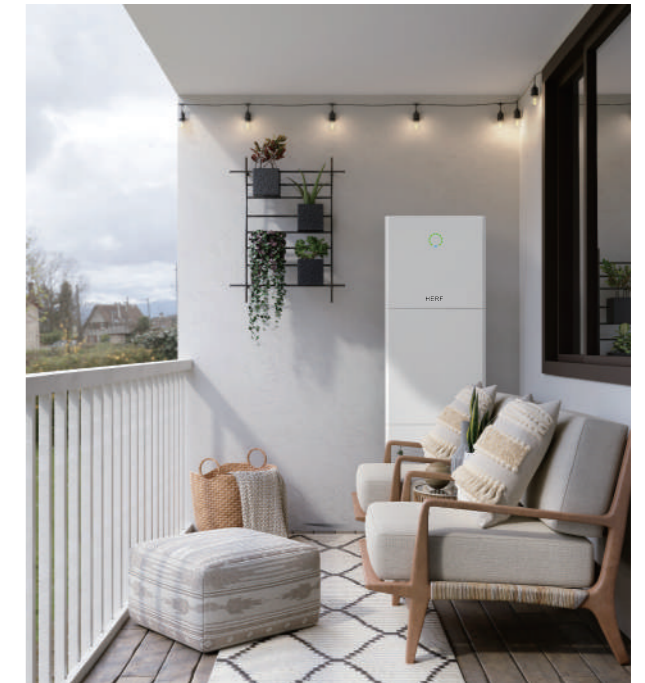


All-in-one ESS





ES Residential ESS-H All In One, One For All



More Efficient More Resilient Improved Temperature Cycle



High system power density,
with only 89Wh/kg



Battery preinstalled,
more convenient for on-site installation



No more other accessories



UPS level provide backup power



Switching time < 10ms
Make you feel no perception of power outages



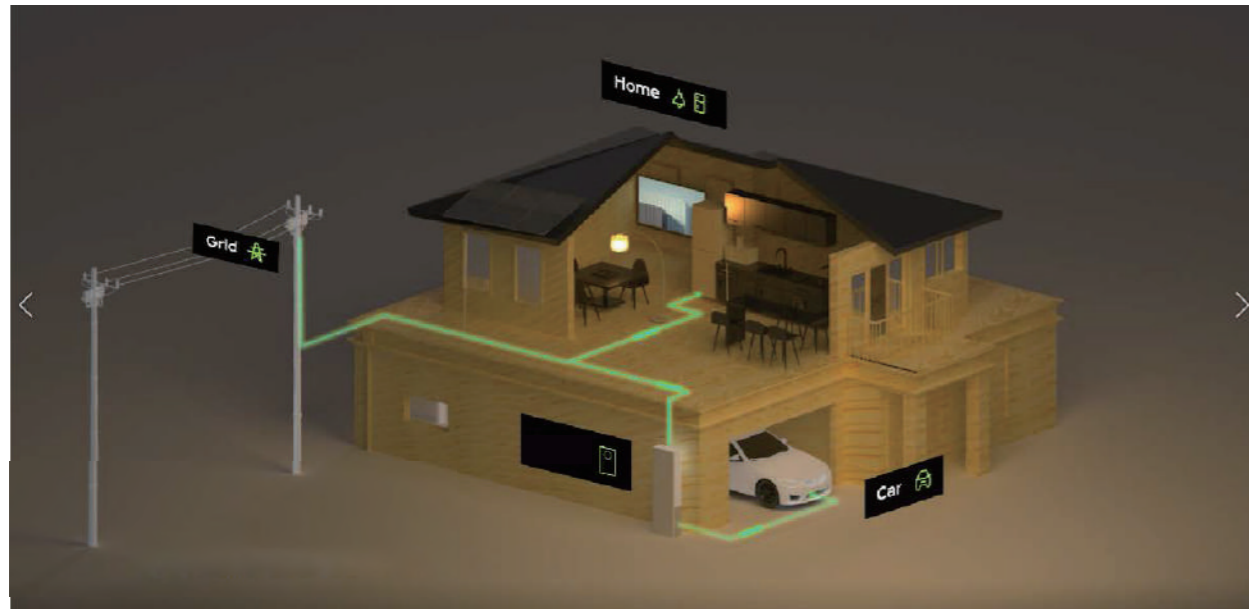
Noise < 25db
Super quiet, in and out



IP65
Choose the place you want to install

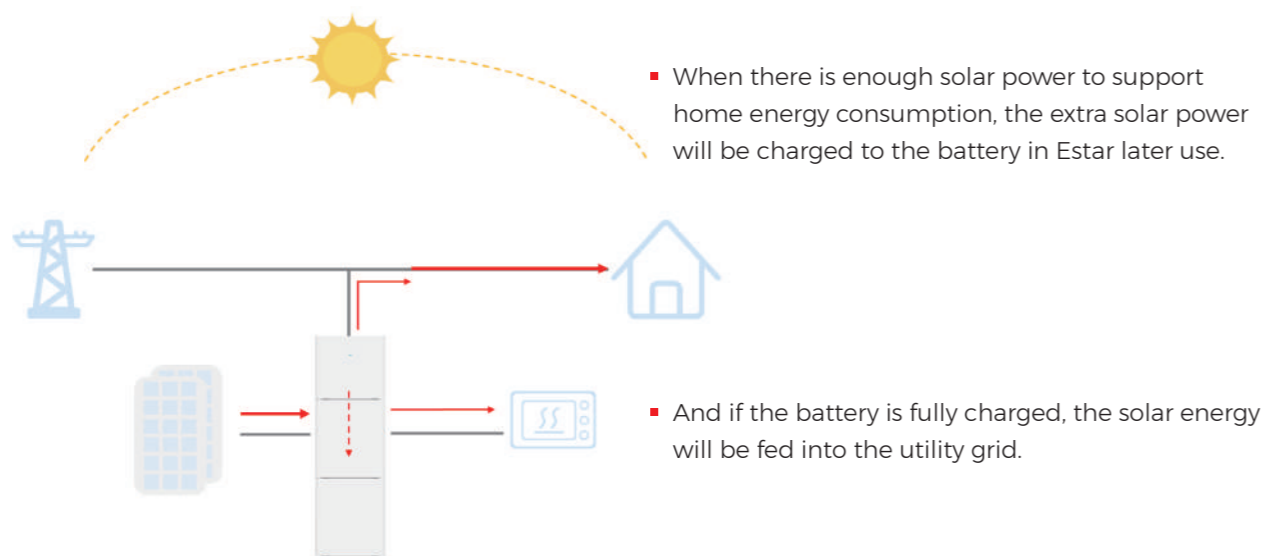
Mode A: Self-Power

Even there is no sunlight, you can still use the stored clean energy day and night.

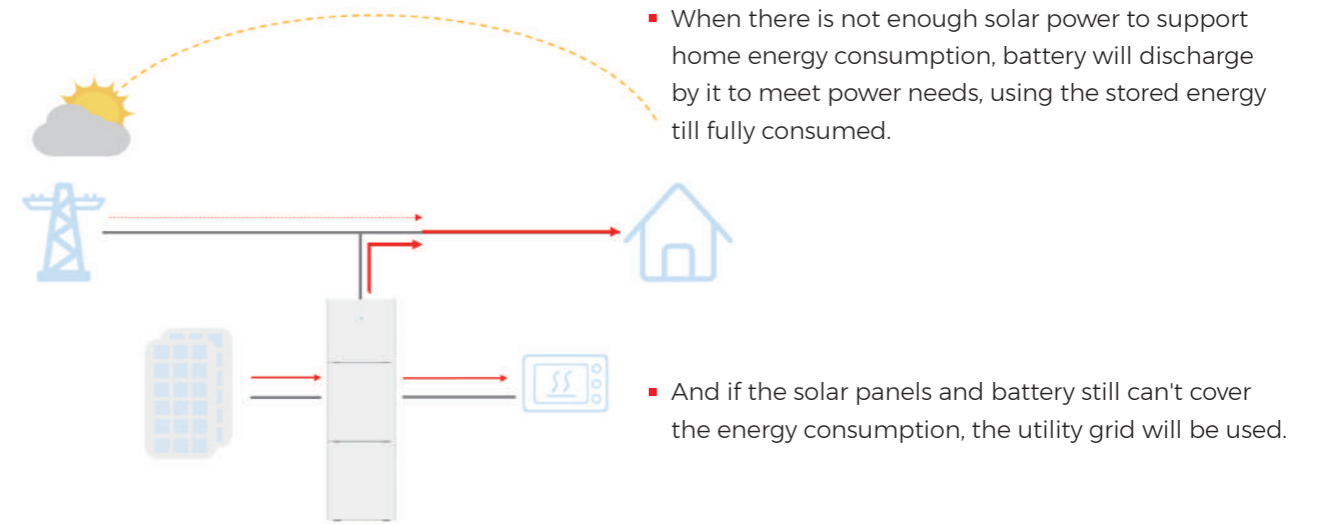


Normally, the clean energy generated by your solar system can be almost used up by your home rather than fed into the utility grid. In this way, you are making more contribution to reduce the carbon emission. Besides, you can save money by less using the peak hour electricity.

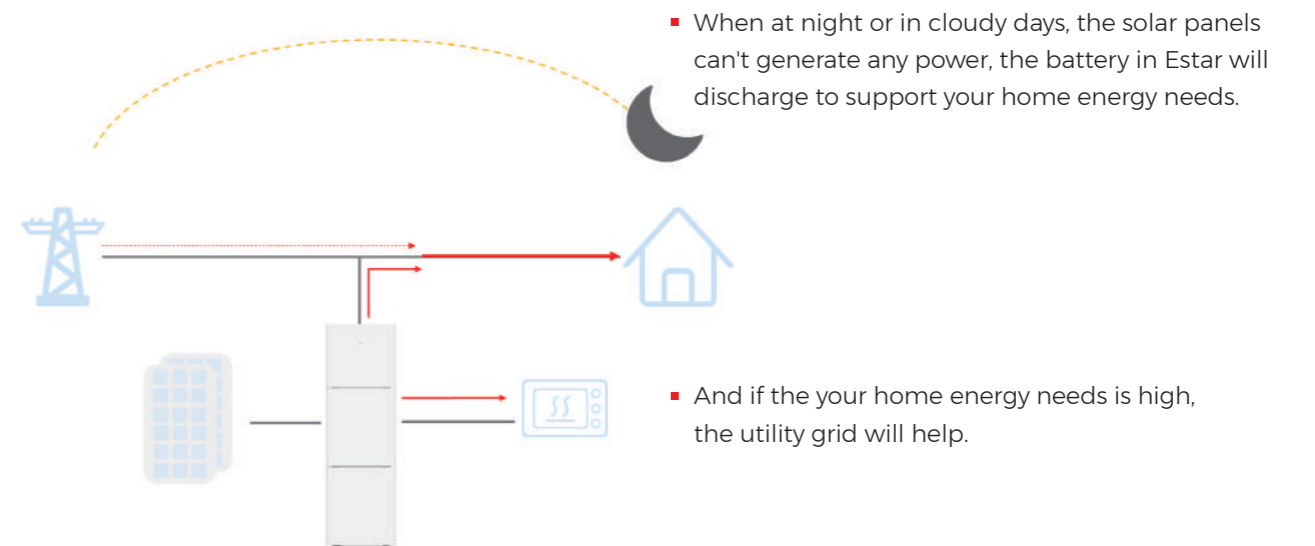
Sunny time at noon, or low home energy needs



Not too much sunlight in morning, at dusk, in bad weather or high home energy needs



No sunlight at night or cloudy days



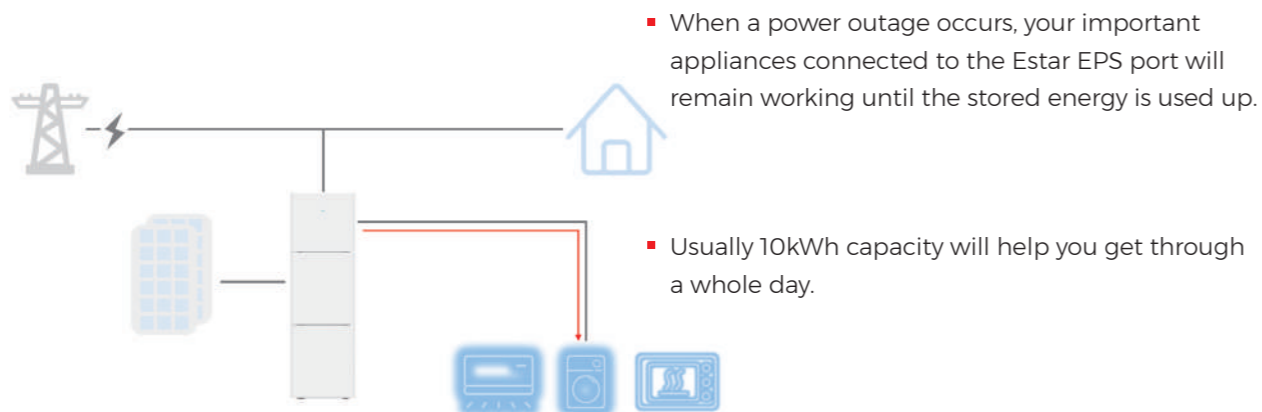
Mode B: Back up

The switching time less than 10ms allows your appliances uninfluenced. Just keep focusing on your things.



We can imagine how bad it is when some unexpected power outages happen, especially when you are enjoying family time with your children, having party with your friends, or doing important work. Back up function is absolutely important for such accidents. And it is real with Estar that in whichever mode, it always protect you from this situation.

Power outage at night or cloudy days

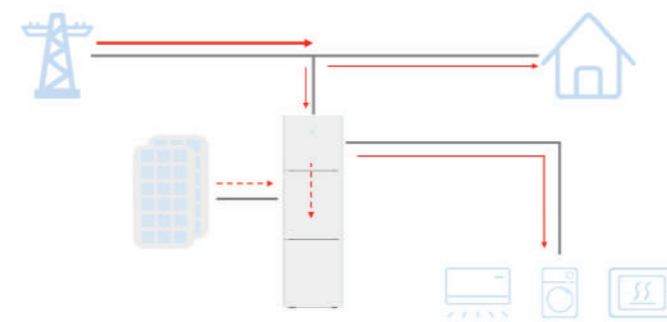


Mode C: Load shifting

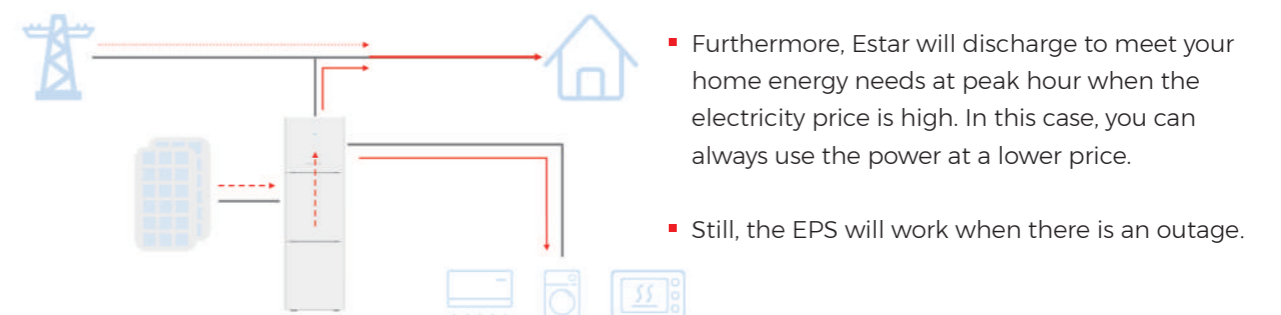
Always using the cheaper energy from the utility grid, and saving money everyday.



Off-peak hour: charge from the grid



Peak hour: discharge to the house

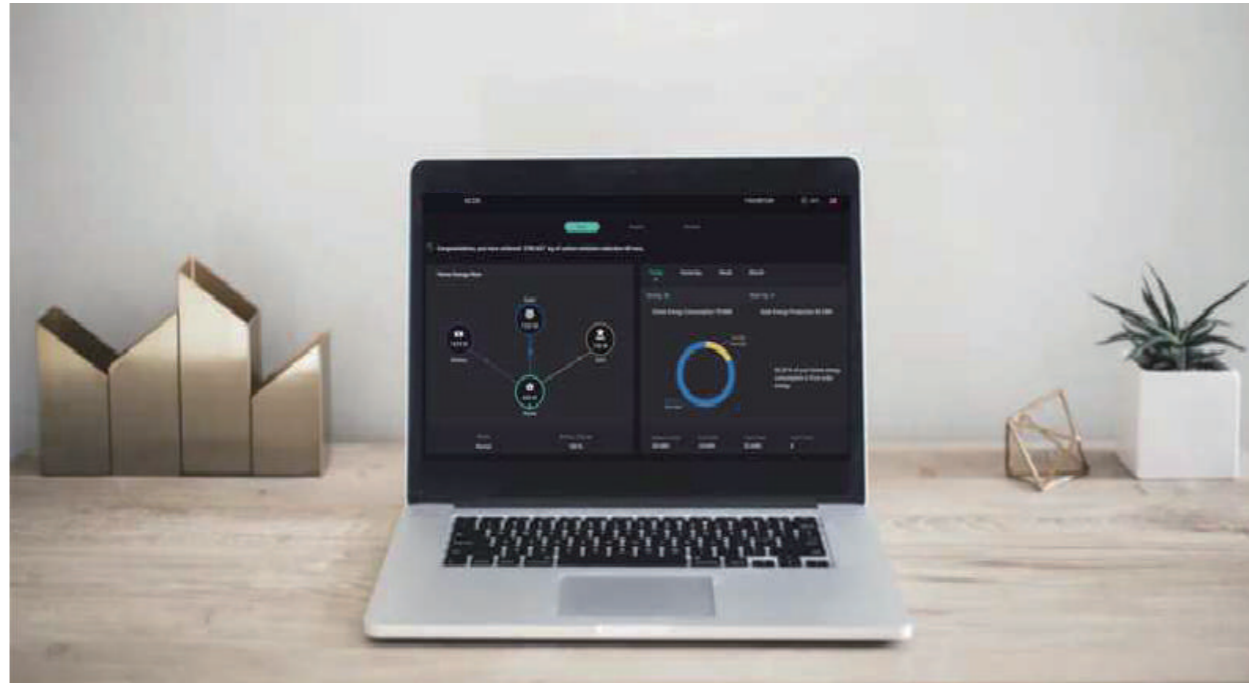


	ESS-H-3.6H -5.12kWh	ESS-H-5.0H -5.12kWh	ESS-H-6.0H -5.12kWh	ESS-H-3.6H -10.24kWh	ESS-H-5.0H -10.24kWh	ESS-H-6.0H -10.24kWh
PV Input						
Absolute max Voltage [d.c.V]	600					
MPPT Voltage Range [d.c.V]	100-550					
Max. DC Input Power [W]	4800	6650	8000	4800	6650	8000
Start-up Voltage [d.c.V]	90					
Rated Operating Voltage [d.c.V]	360					
Max. Input Current [d.c.A]	12.5/12.5					
Max. inverter backfeed current to array [d.c.A]	0					
Isc PV [d.c.A]	18/18					
NO.of MPP Trackers	2					
NO.of Strings per MPP Tracker	1					
Battery Model	ESS-H-5.12			ESS-H-10.24		
Battery Capacity	LiFePO4 5.12kWh			LiFePO4 10.24kWh		
Nominal Battery Voltage [d.c.V]	204.8			409.6		
Battery Voltage Range [d.c.V]	160-227.2			320-454.4		
Max. Charge/Discharge Current [d.c.A]	25/25					
AC Input/Output						
Rated output Power [W]	3600	5000	6000	3600	5000	6000
Rated Apparent Power to Grid [VA]	3600	5000	6000	3600	5000	6000
Max. Apparent Power to Grid [VA]	3600	5000	6000	3600	5000	6000
Max. Apparent Power from Grid [VA]	7200	10000	12000	7200	10000	12000
Rated Voltage [a.c.V]	220/230/240					
Rated Frequency [Hz]	50/60					
Rated AC Current to Grid [a.c.V]	15.6	21.7	26.1	15.6	21.7	26.1
Max. output current [a.c.V]	17.2	23.9	28.7	17.2	23.9	28.7
Max. Current from Grid [a.c.A]	31.2	43.4	52.2	31.2	43.4	52.2
Inrush current [a.c.A]	16 a.c.A (peak), 11.3 us (duration)					
Max. output fault current [a.c.A]	57 (peak), 40 (rms)					
AC output Maximum output overcurrent protection[a.c.A]	40					
AC input power factor	-0.8~+0.8					
AC output power factor	1 (-0.8~+0.8 adjustable)					
THDi	<3%					

	ESS-H-3.6H -5.12kWh	ESS-H-5.0H -5.12kWh	ESS-H-6.0H -5.12kWh	ESS-H-3.6H -10.24kWh	ESS-H-5.0H -10.24kWh	ESS-H-6.0H -10.24kWh
EPS Output (With Battery)						
Max. Output Power [W]	3600	5000	6000	3600	5000	6000
Rated Apparent Power [VA]	4320	6000	7200	4320	6000	7200
Max. Apparent Power [VA]	4320	6000	7200	4320	6000	7200
Rated Voltage [a.c.V]	230 (±2%)					
Norminal Frequency [Hz]	50/60 (±0.2%)					
Max. Output Current [a.c.A]	18.8	26.1	31.3	18.8	26.1	31.3
Inrush current [a.c.A]	16 a.c.A (peak), 11.3 us (duration)					
Max. output fault current [a.c.A]	57 (peak), 40 (rms)					
EPS output Maximum output overcurrent protection [a.c.A]	40					
Switch time [ms]	<10					
THDv @ Linear Load [%]	<2					
Power Factor	-0.8~+0.8					
General Data	ESS-H-5.12			ESS-H-10.24		
Dimension (W/D/H) [mm]	550×233×1125			550×233×1750		
Dimension of Packing (W/D/H) [mm]	645×302×1370			655×302×2055		
Net weight [kg]	68			115		
Gross weight [kg]	78			130		
Operation Temp [°C]	-10~+55					
Relative Humidity [%]	0-95					
Altitude [m]	≤ 4000 (>3000 Derating)					
Ingress Protection	IP65					
Cooling	Natural					
Inverter Topology	Non-isolated					
Human Interface	LED/APP					
BMS Communication Interface	RS485/CAN					
Meter Communication Interface	RS485					
Noise Emission [dB]	<25					
Standby Power Consumption [W]	<5					
Safety and Approvals						
Safety	IEC62040.1:2019, AS/NZS 4777.2:2020, IEC 62109-1&-2, IEC62619, UN38.3, IEC60730-1					
EMC	EN 61000-6-2/3, IEC 61000-3-11/12, IEC61000-6-2, IEC61000-4-2/3/4/5/6/8					

ECOS

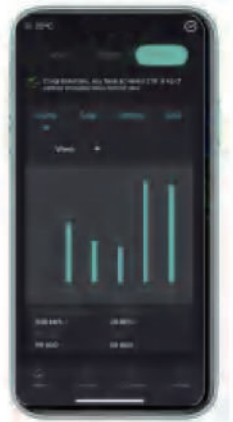
The Master Of Your Home Energy



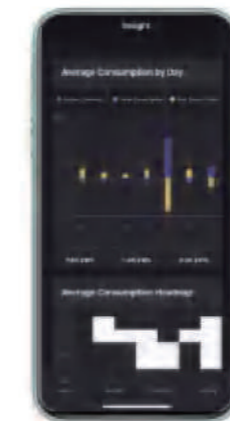
Energy Flow



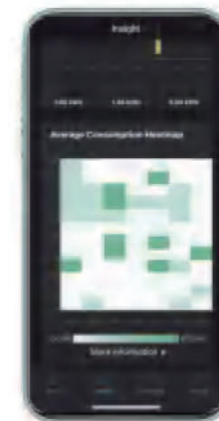
Energy Usage



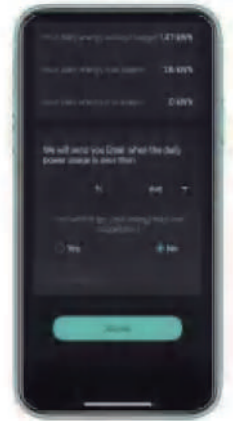
History



Energy Consumption



Energy Heatmap



Notice

The insight will let you know more about how your home energy is consumed, like whether energy is being wasted. Hence you can decide how to make it better.



Energy access

View energy usage in real time

Let every second of energy use be mastered.



Insight

Insights into home energy use

The insight will let you know more about how your home energy is consumed, like whether energy is being wasted.

Better improve your behaviors to reduce carbon emissions and save the planet.



Customize

Customize as you like

Self-powered (by default), Load shifting and Back up modes, choose the best one for you.