

Revolutionary Retrofit Solution

Specialized for Existing PV System

6/12kW
1P/3P

Solar Mate

PV Coupling

Whole System Solution

High Voltage
7.68~46kWh

DYNES



Less Solar Rebate
Higher Electricity Tariff

Add More Solar

Add Battery

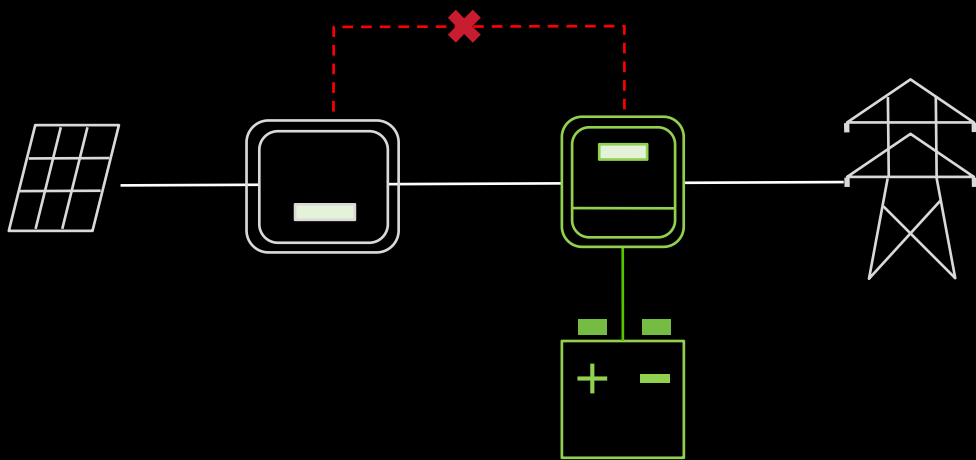
More Electrical Appliances

DYNES

Regular retrofit solutions

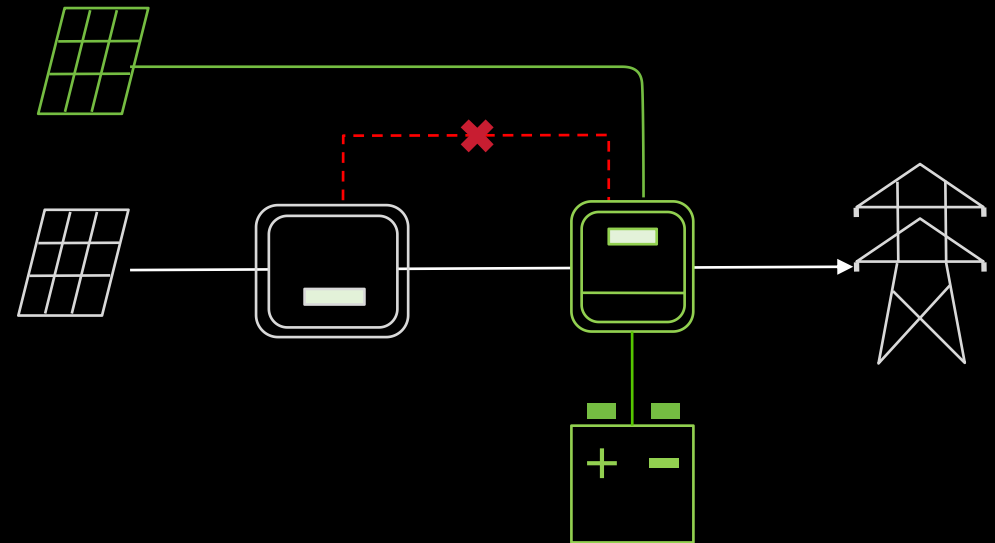
1. Add Battery Only

AC COUPLING



2. Add Battery and Panels

HYBRID



Disadvantages

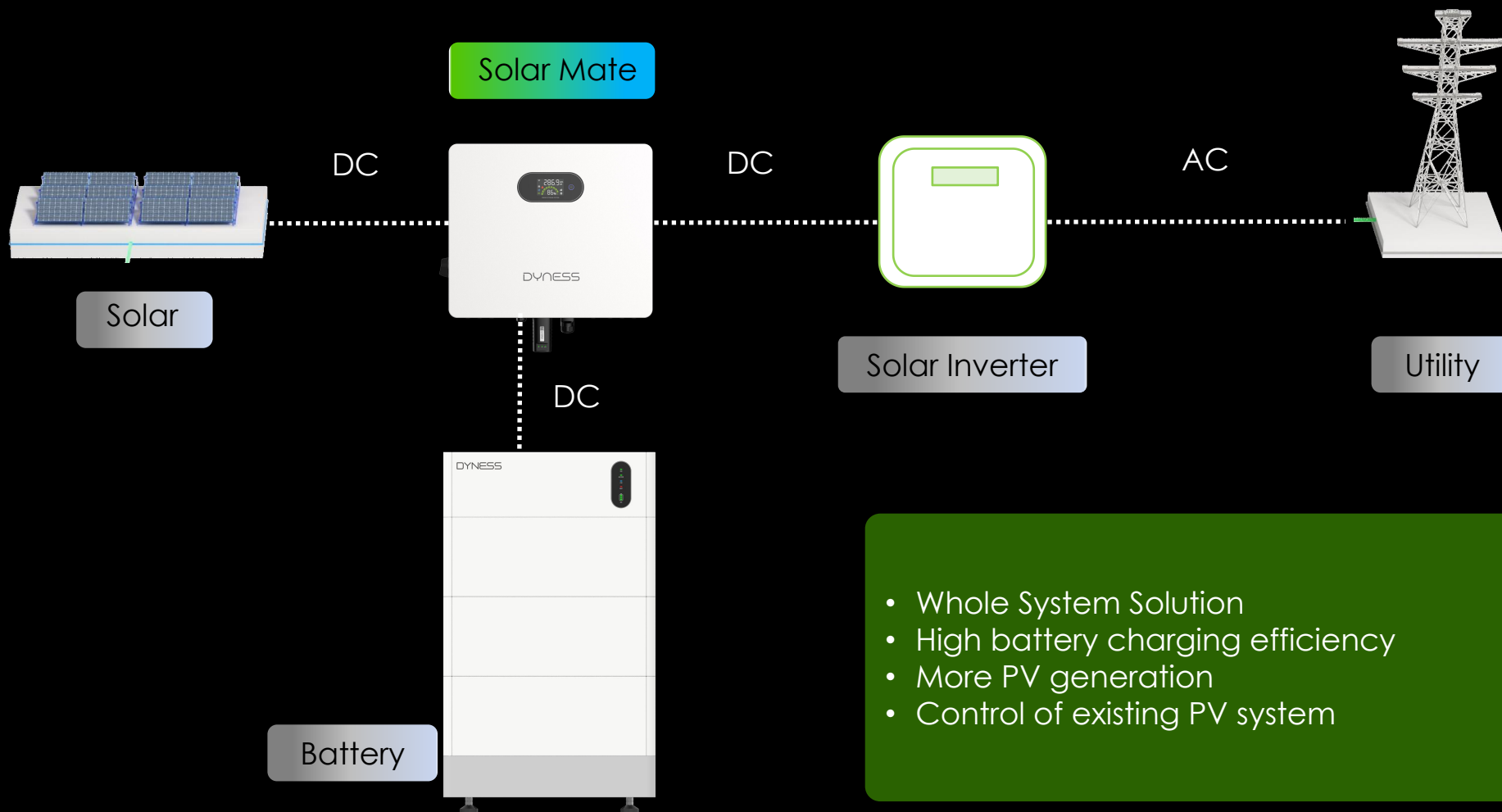
1. Long time for grid connection permission
2. Low battery charging efficiency
3. No control of existing PV system

4. Existing PV system cannot work during blackout
5. Solar production & Battery charge power limited

NEW

Retrofit Solution

Solar Mate- PV Coupling Solution



DYNESS

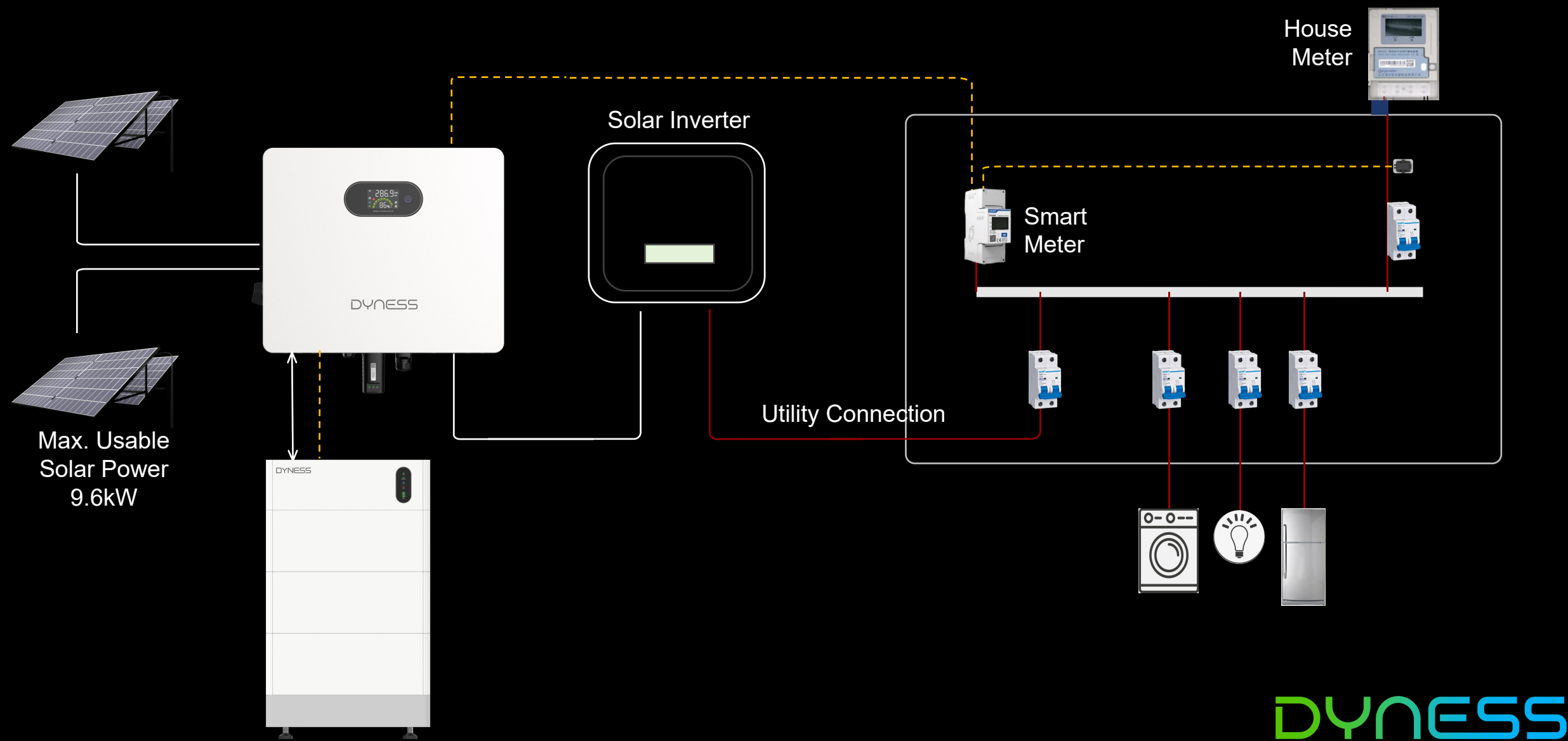


Solar Input

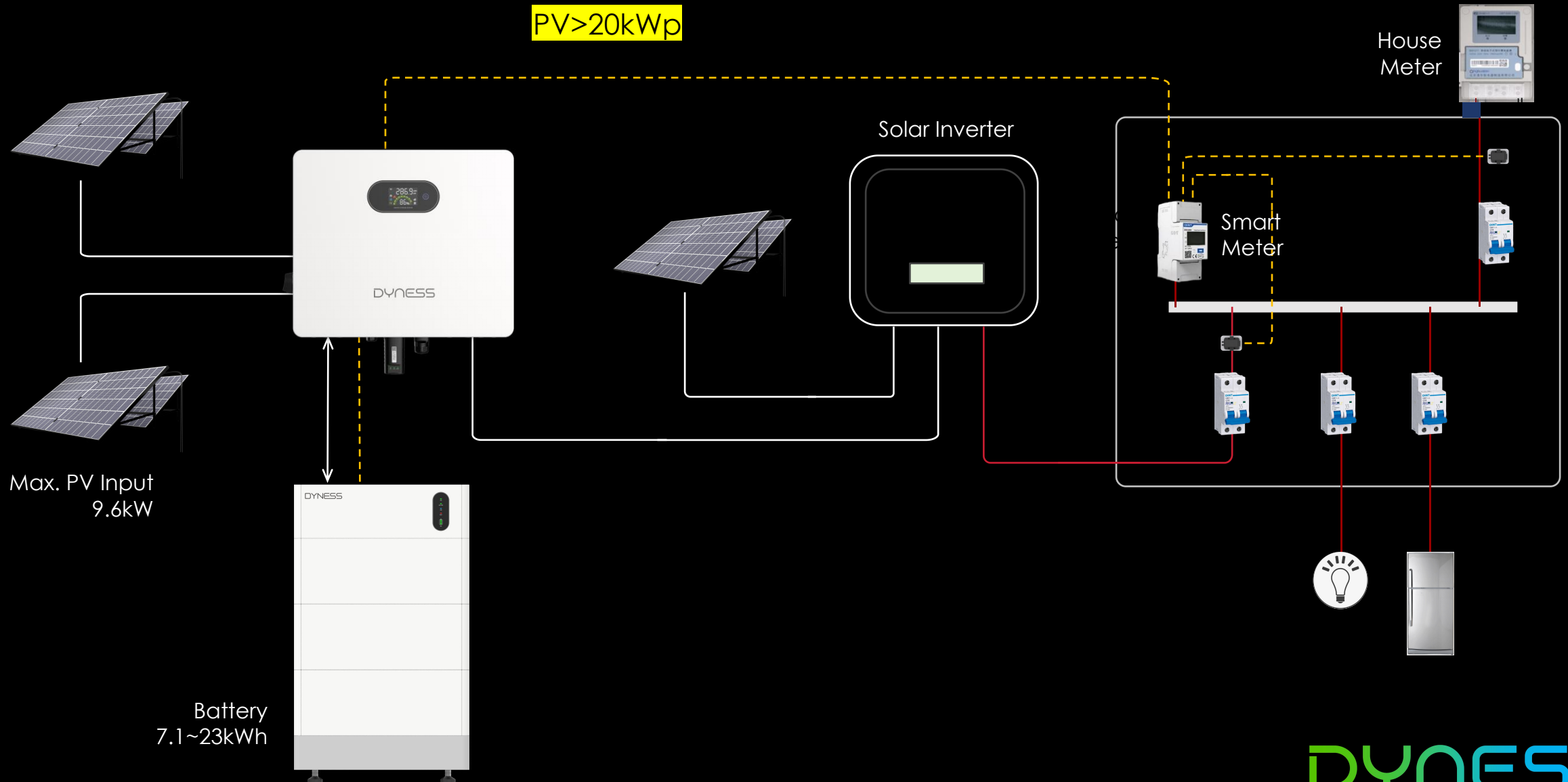
Solar Inverter

**Power
Distribution Box**

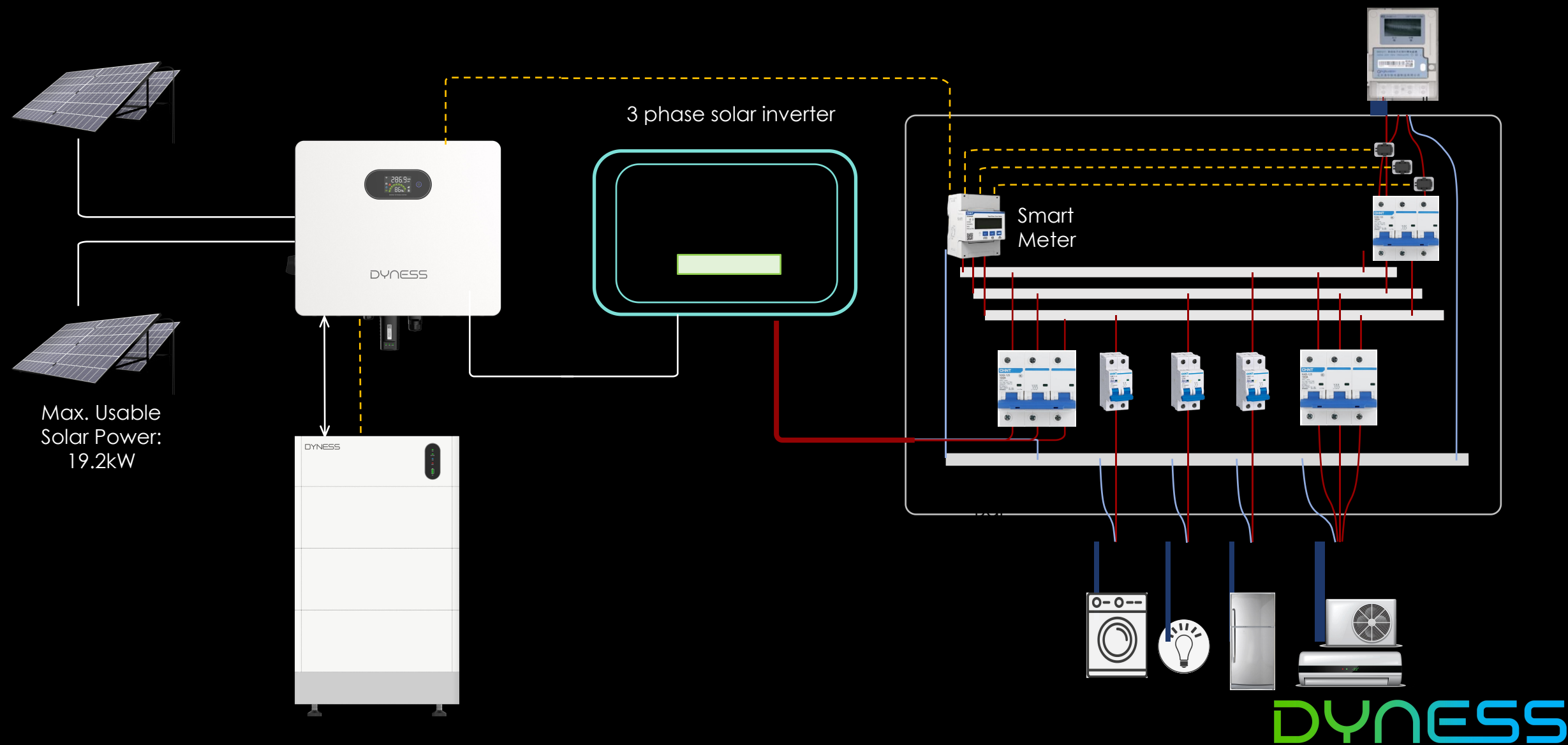
System Diagram-Solar Mate



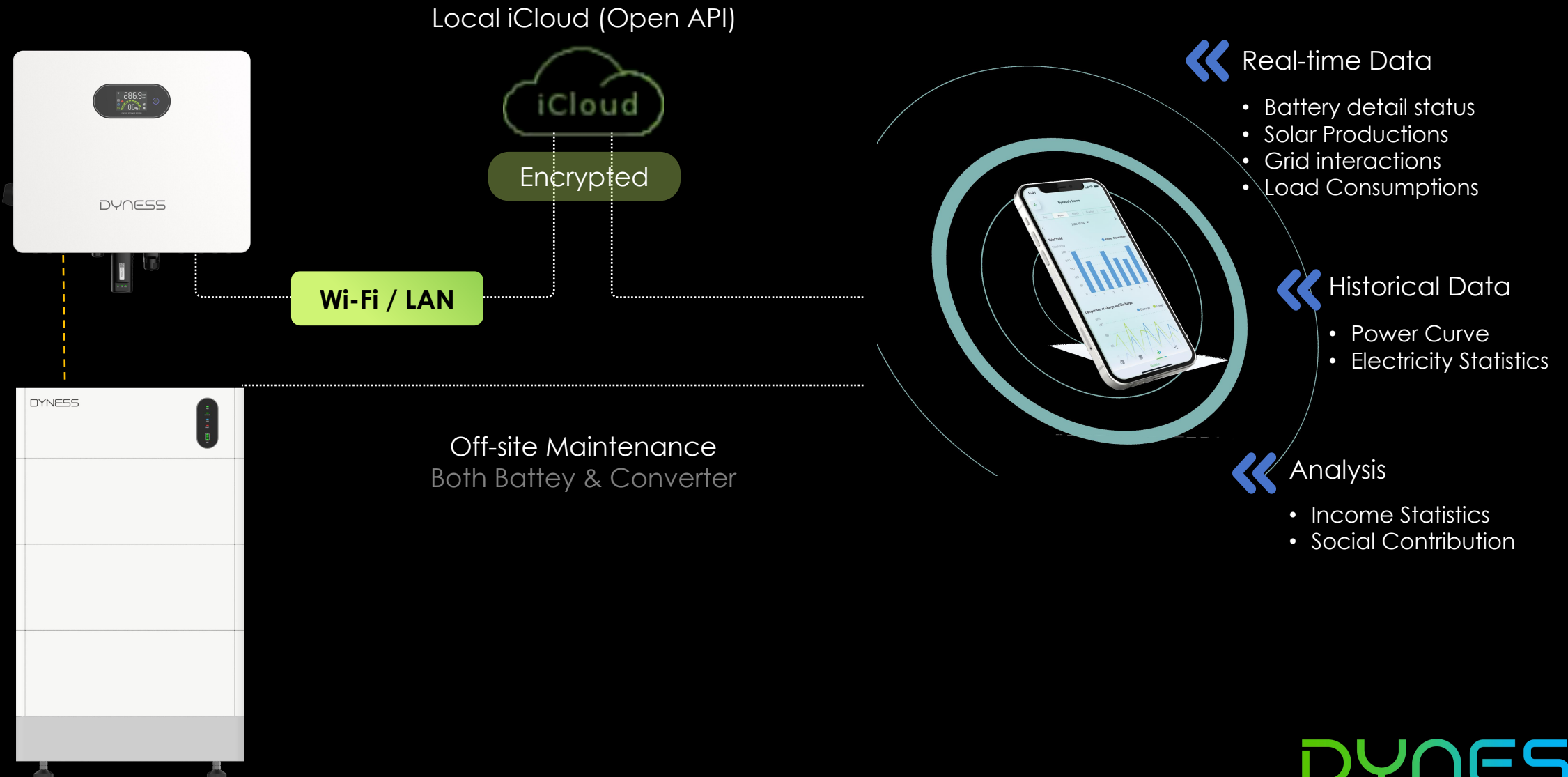
System Diagram- Solar Mate in 1P systems



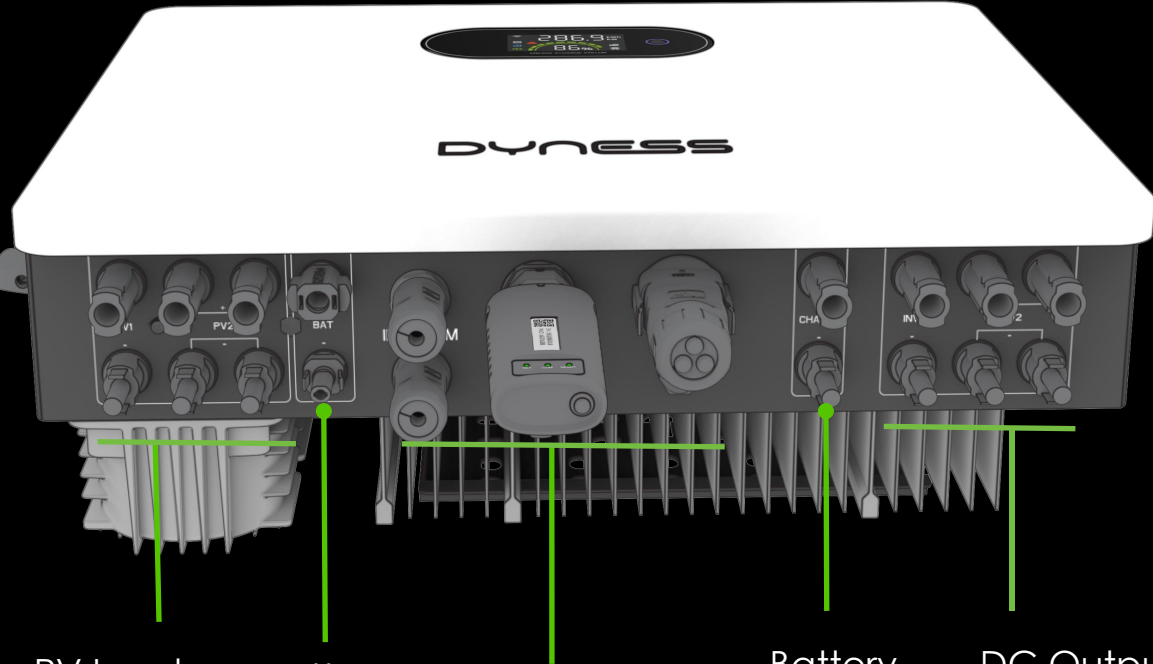
System Diagram- Application in 3P systems



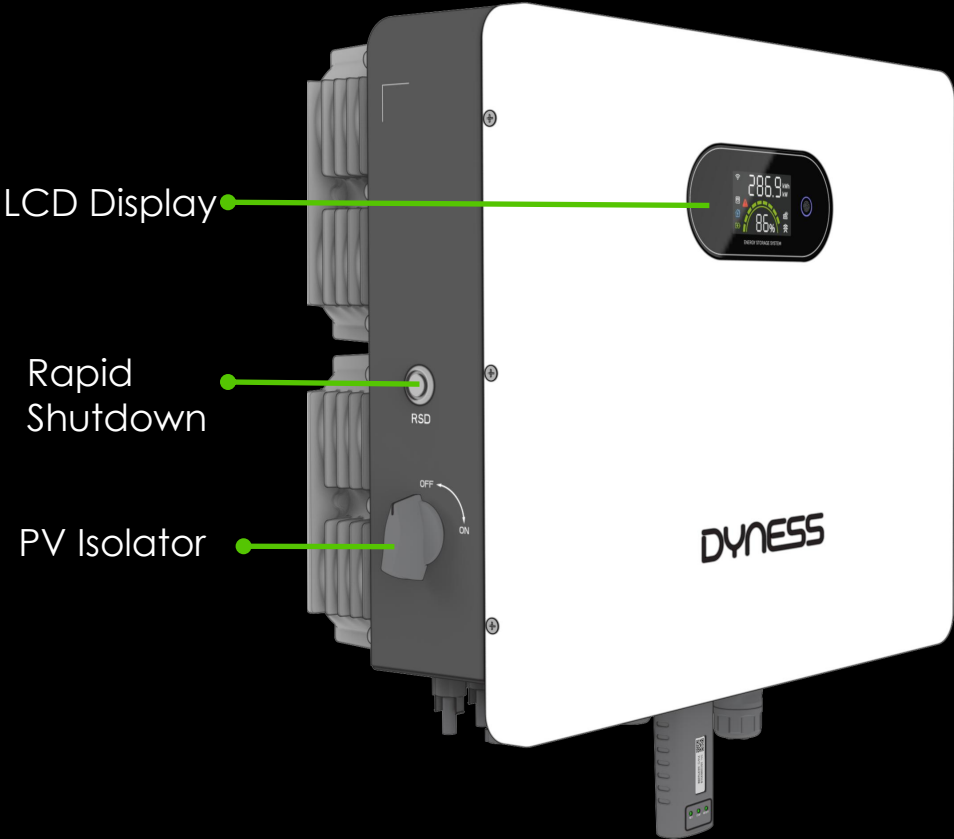
System Abilities-Easy for Operation&Monitoring



Product Appearance



PV Input (MC4) Battery Communication Battery Charger* DC Output (MC4)



Currently this connector is used for auxiliary power function, battery charger function will be available in 2025 Q2

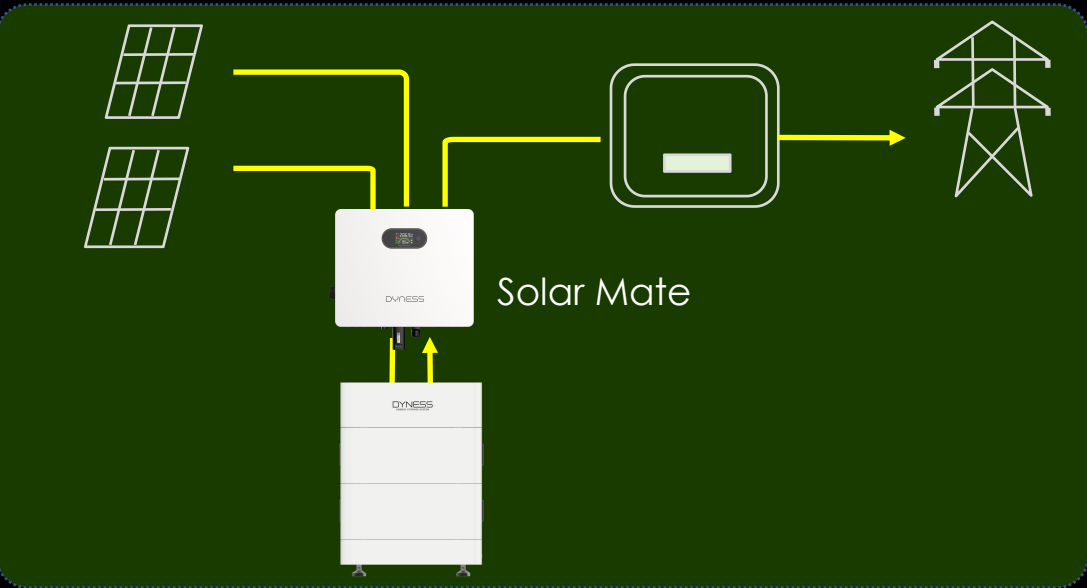
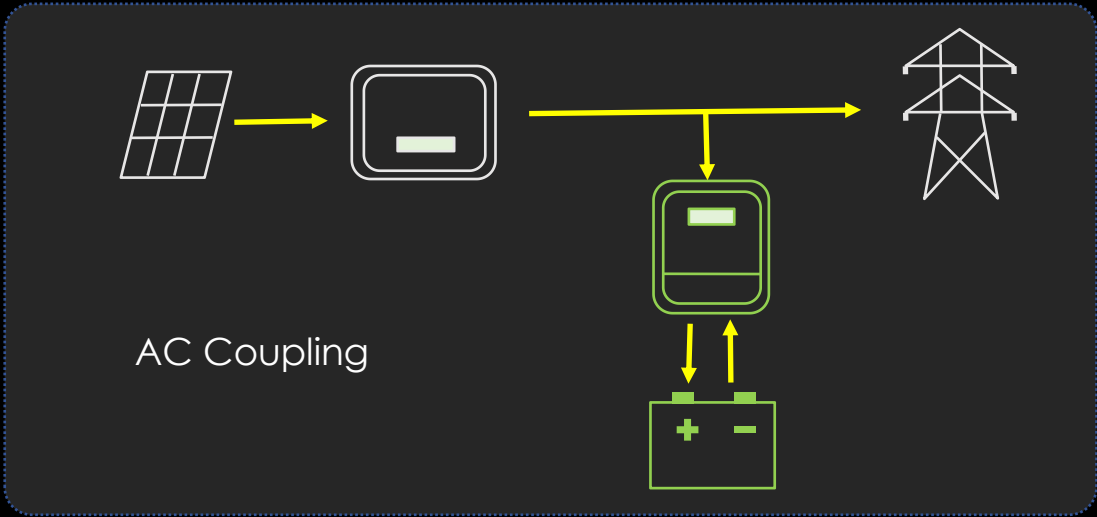
Solar Mate



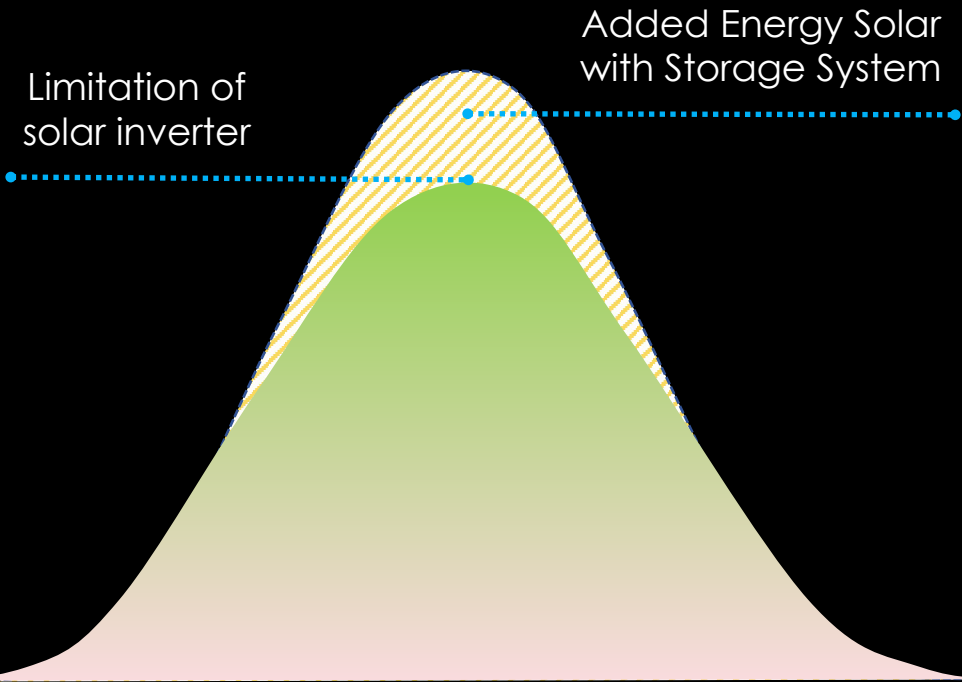
	6kW	12kW
Max. Connection PV Power	12kW _p	24kW _p
Max. Input PV Power	9.6kW	19.2kW
MPPT strings	1/1	2/1
Output Power	6kW _{dc} *	12kW _{dc} *
Output Strings	2	2
Weight	20kg	
Protection	IP65	

The output power is automatically adjusted according to the original PV inverter power.

Comparison of retrofit solutions



160% Max. PV Input Power Ability



Comparison of retrofit solutions

Comparations		AC coupling	Hybrid	PV coupling
Installation	Replace existing inverter	NO	YES	NO
	Grid-connection Permission	YES	YES	NO
Performance	Direct Solar Management	NO	NO	YES
	Add More Solar	NO	YES	YES
	Export Power Limit	NO	NO	YES
	Charging efficiency	Low	Medium	Higher
	Solar Production	Low	Medium	Higher
Continuity	System Reupdating Cost	High	High	Low
	Regulations Compatibility	Affected	Affected	/
Design	Dimensions			Smaller
	Weight			Lighter

Low transportation
and storage costs

DYNESS

Multi-safety design

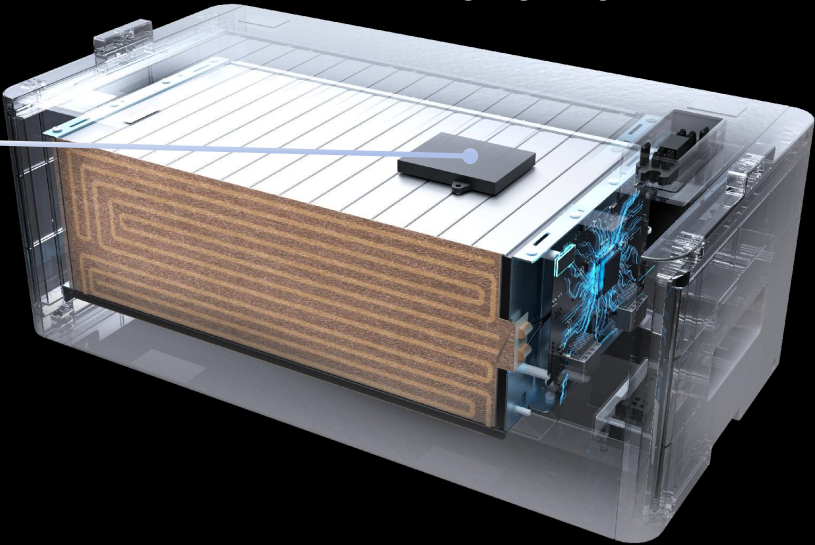
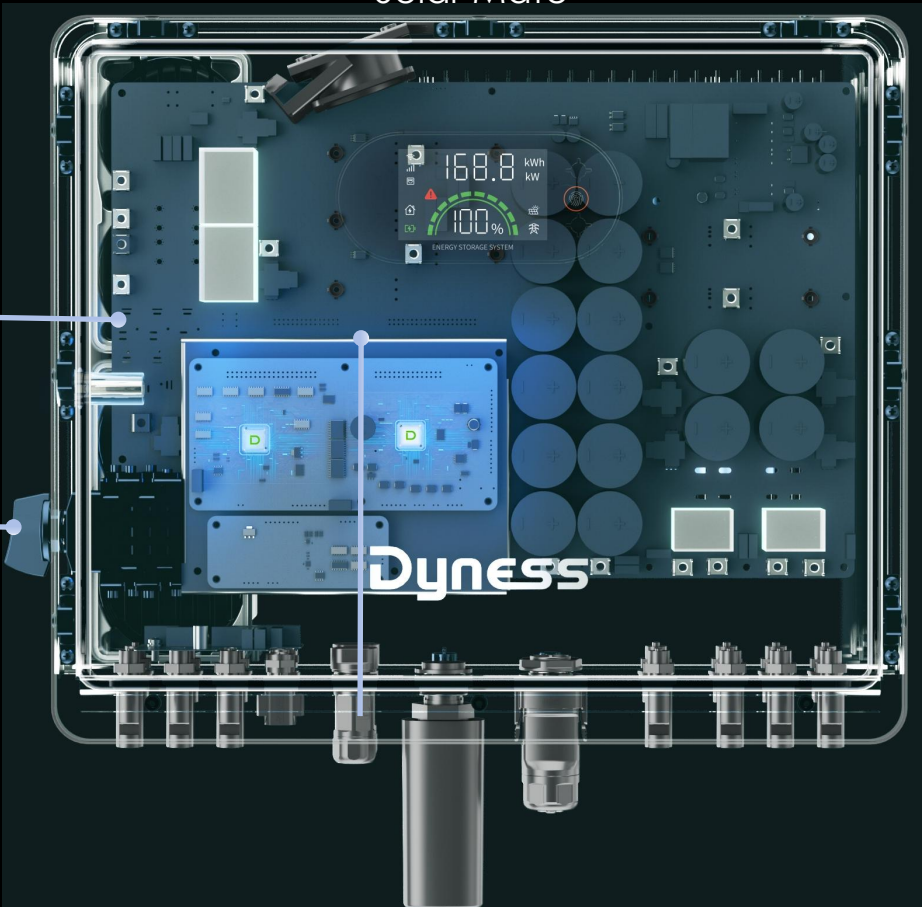
Fire extinguisher

Tower Pro

Solar Mate

SPD: DC-Typesell

DC Isolator



DYNESS