

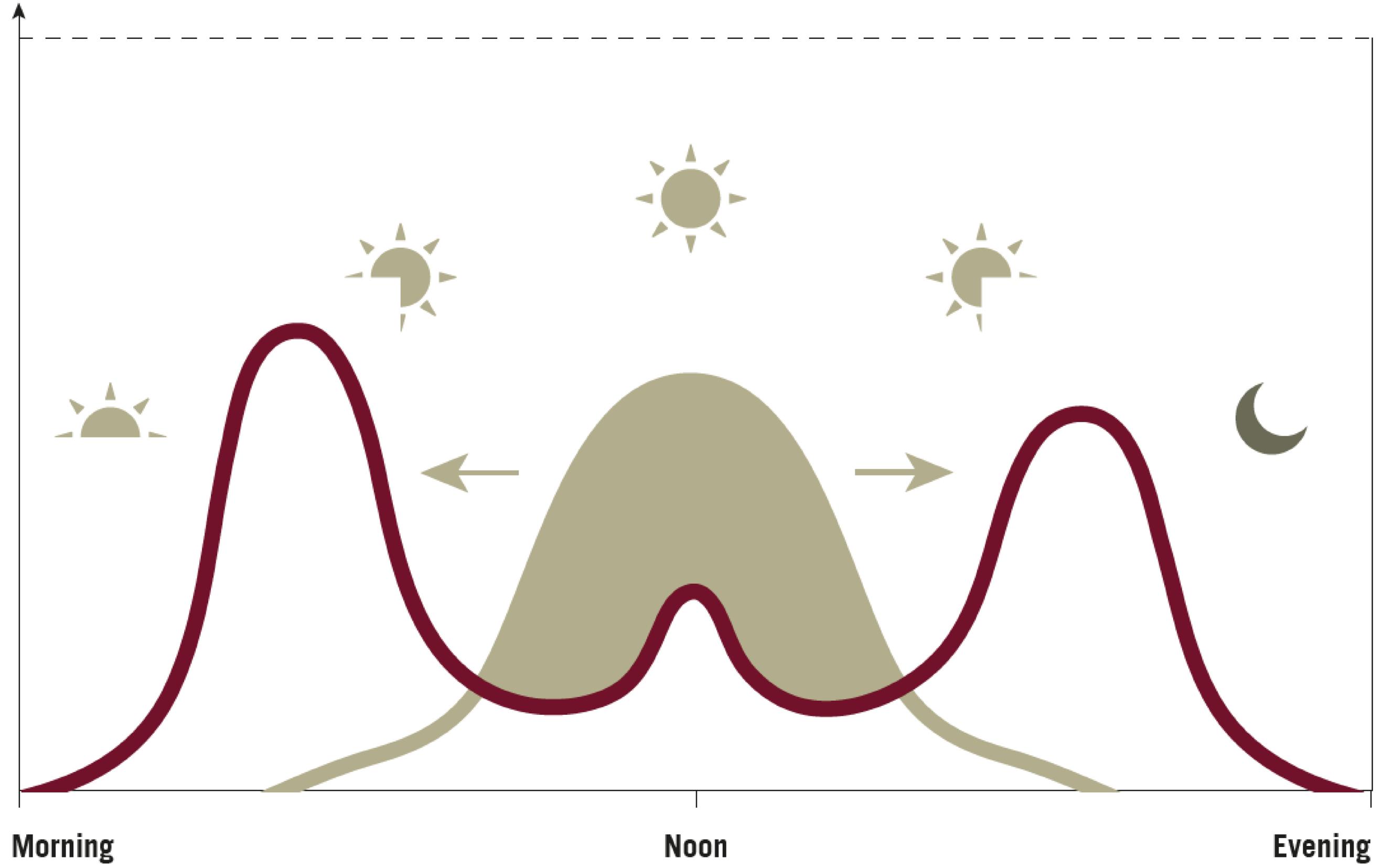
Q CELLS Q.HOME+ ESS ENERGY STORAGE SOLUTIONS

GELLS

WHY DO WE NEED AN ENERGY STORAGE SYSTEM?

KW





Solar generated energy

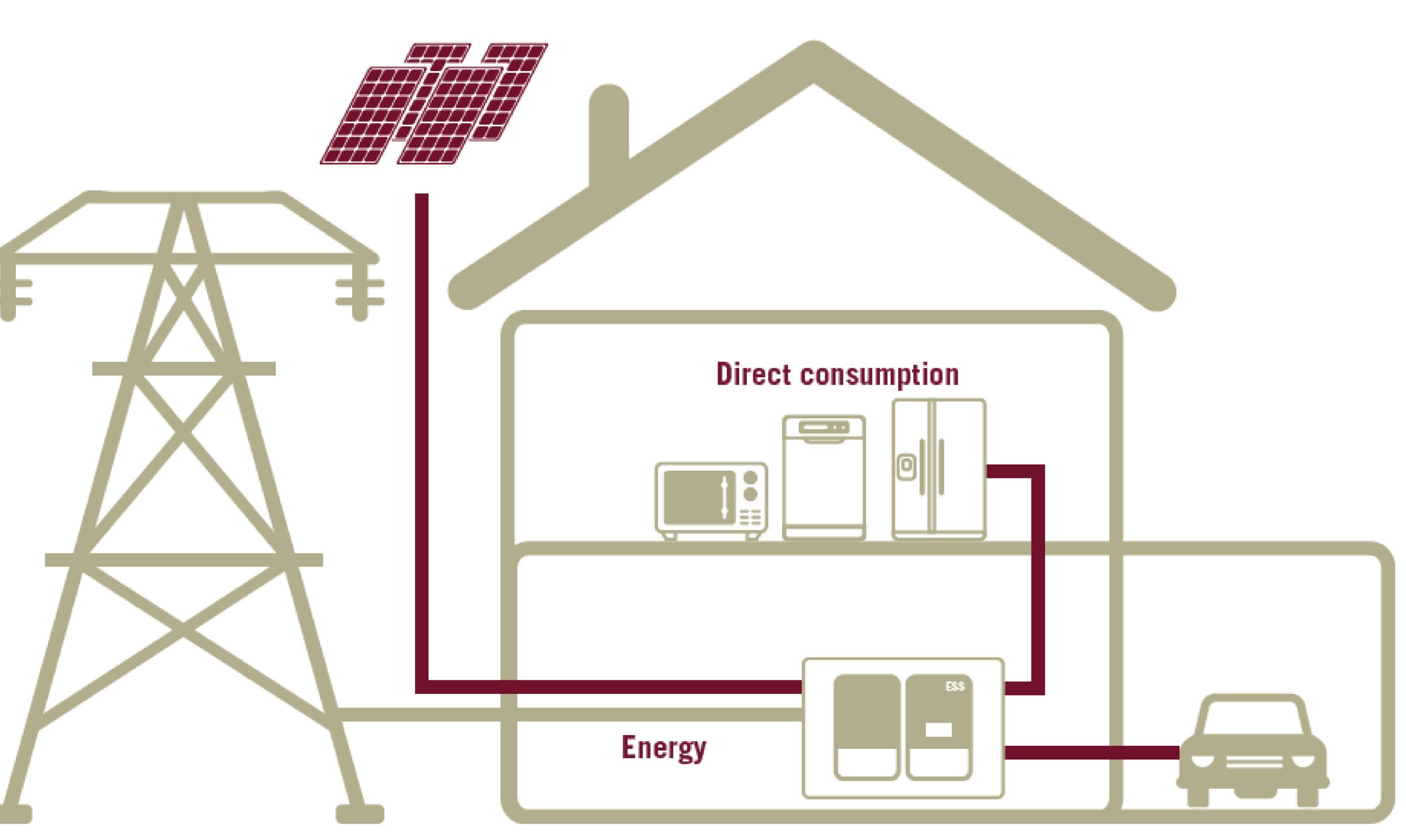


Typical energy consumption pattern

TYPICAL INSTALLATION







Q.HOME+ ESS HYB-G2

OVERVIEW Q.HOME+ ESS PORTFOLIO

SINCE 2017: Q.HOME+ ESS-G1

- 3.6 kWh, 5.5 kWh and 8.0 kWh
- ALL-IN-ONE system





FROM Q4/2018: Q.HOME+ ESS HYB-G2 4.0 kWh - 20.0 kWh

Modular and scalable system



FROM Q1/2019: Q.HOME+ ESS AC-G2 4.0 kWh – 20.0 kWh Scalable system for retrofit





Q.HOME+ ESS-G1 – OPTIMISED CAPACITY FOR RESIDENTIAL HOUSES





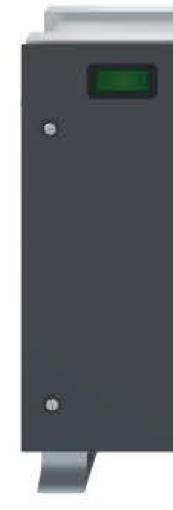
HIGHLIGHTS OF THE ALL-IN-ONE GENERATION

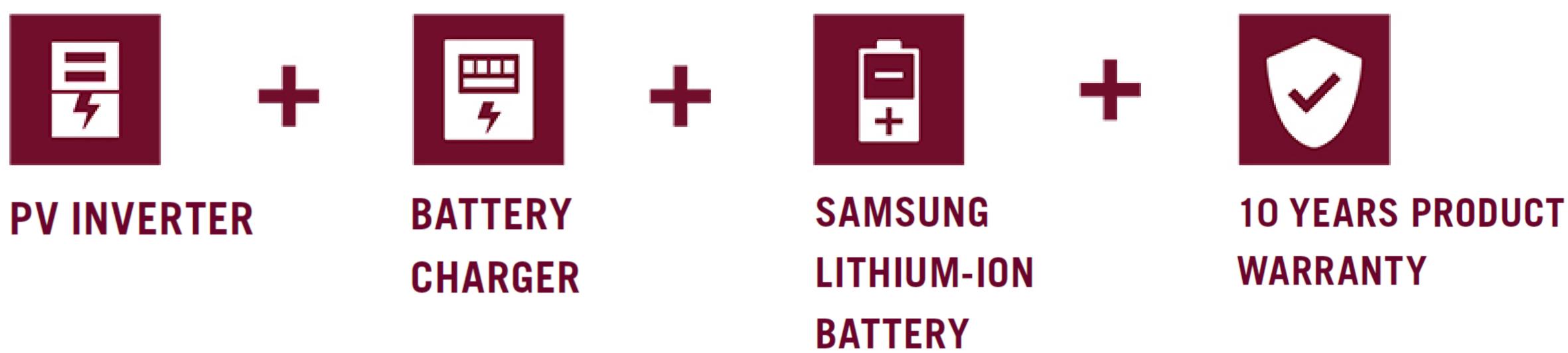
- Compact and standing device
- Plug'n'Play
- Pre-configuration in the office
- Online software updates
- 10 year system and performance warranty
- ESS operation at negative temperature
- High cell security from Samsung SDI

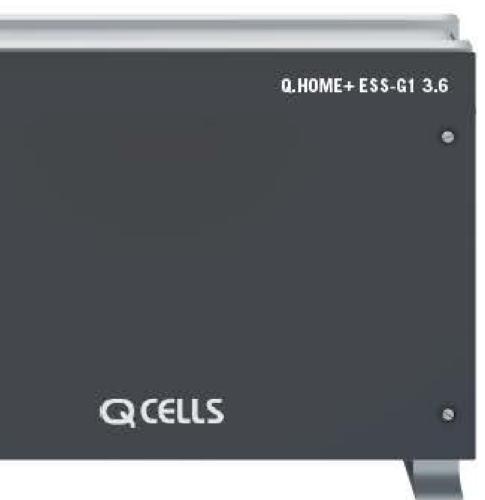


Q.HOME+ ESS-G1 – THE PROVEN GENERATION











Q.HOME+ ESS-G1 3.6

Q.HOME+ ESS-G1 5.5



Q.HOME+ ESS-G1 8.0

ALL-IN-ONE STORAGE SOLUTION INCLUDING INVERTER, BATTERY AND MANAGEMENT SYSTEM



Q.HOME+ ESS-G1 8.0 – THE 3 PHASE ALL-IN-ONE SYSTEM

PRODUCT SPECIFICATION Q.HOME+ ESS-G1		
ITEM		Q.HOME+ESS-G1 8.0
DC Input (PV)	Max Power	10.0kWp
	Max Voltage	1.000V
	MPPT/Rated Voltage	320V ~ 800V
	Min./Initial Input Voltage	150V/180V
	No. of Strings (MPPT)	2/4 (2+2)
AC Output	Power	8.0 kVA (DE)
	Nominal voltage/Frequency	230V/50Hz
	Feed-in Phase/Connection	3/3
Efficiency	PV to Grid (European)	96 ~ 97%
Lithuim-ion Battery	Power	ЗkW
	Nominal Capacity	8.0kWh
	Usable Capacity	7.2 kWh
Product	Dimension (L \times W \times H)	$1.070 \times 260 \times 880 \mathrm{mm}$
	Weight	151 kg
	IP grade	21

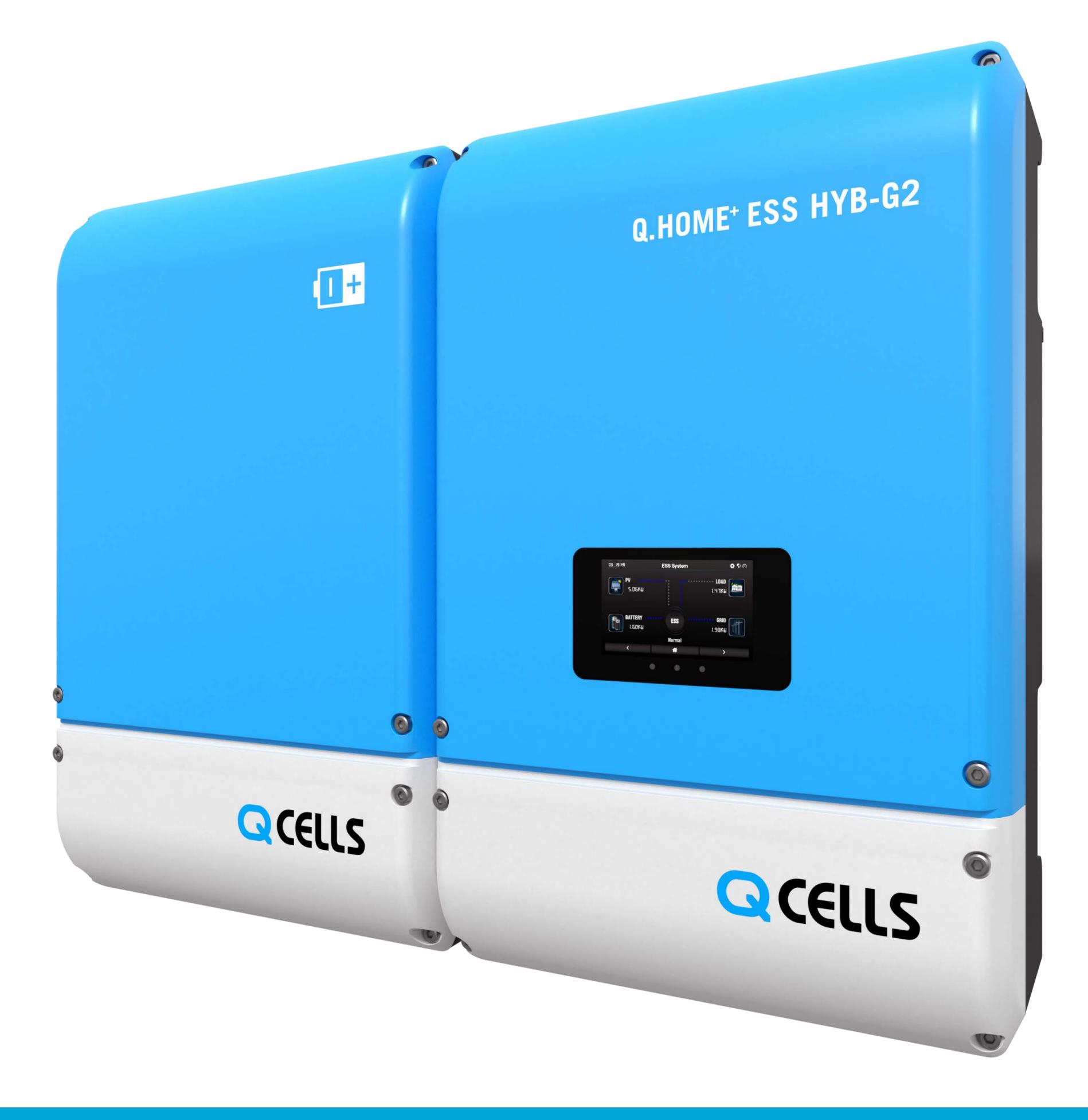








Q.HOME+ ESS HYB-G2 – THE MODULAR AND SCALABLE STORAGE SOLUTION



Q.HOME+ ESS HYB-G2 – THE MODULAR AND SCALABLE STORAGE SOLUTION

SCALABLE SOLUTION FOR OPTIMISED CONSUMPTION Scalable storage capacity from 4 kWh up to 20 kWh to suit the specific energy consumption.

SMART DESIGN

Modular design for easy and fast installation, remote control operated hybrid system with hybrid inverter, lithium-ion battery and battery charger.













HYBRID

INVERTER

BATTERY

CHARGER







10 YEARS PRODUCT WARRANTY





Q.HOME+ ESS HYB-G2 – TECHNICAL SPECIFICATION

PV INTERFACE (PV

Number of individ Max. input total

UTILITY INTERFACE

Nominal Grid Volt Nominal AC Outp **BATTERY ENCLOSU**

Capacity(each mo Scalability

MECHANICAL DATA

Dimensions (W x Weight Inverter/Ba

GENERAL DATA

Operating Ambier Protection (IP) Ra

USER INTERFACE

Front Panel Display



V INPUT DATA)	
idual MPP-Tracker	2
power	6.6 kWp
CE (AC INPUT AND OUTPUT)	
oltage / Phase	230 V / 1 Phase
put Power (to Utility Grid)	4.6 kW
URE	
nodule)	4 kWh
	4 up to 20 kWh
ΓΑ	
kHxD)mm	468 X 722 X 213 n
Battery in kg	32/52
ent Temperature Range	-10 ~ 40 °C
Rating	IP54
olay	5" TFT Touch LCD



213 mm





Q.HOME+ ESS HYB-G2 – THE SCALABLE GENERATION WITH HYBRID INVERTER

- Easy wall mounted installation
- Plug'n'Play

+

- Pre-configuration in the office possible
- Online software updates
- 10 years system and performance warranty
- ESS operation at negative ambient temperature
- High cell security from Samsung SDI
- Ready for Q.HOME CLOUD



Smart design: modular and scalable



Q.HOME+ ESS AC-G2 – THE MODULAR AND SCALABLE STORAGE SOLUTION







THE SCALABLE GENERATION FLEXIBLE AND **SUITABLE FOR RETROFIT**

- Smart design: modular and scalable
- AC-coupled solution
- Charge/discharge with 2 or 3 kW
- Battery capacity 4 20 kWh
- Ready for Q.HOME CLOUD





AC INVERTER

BATTERY

CHARGER



4



-

+

SAMSUNG LITHIUM-ION BATTERY

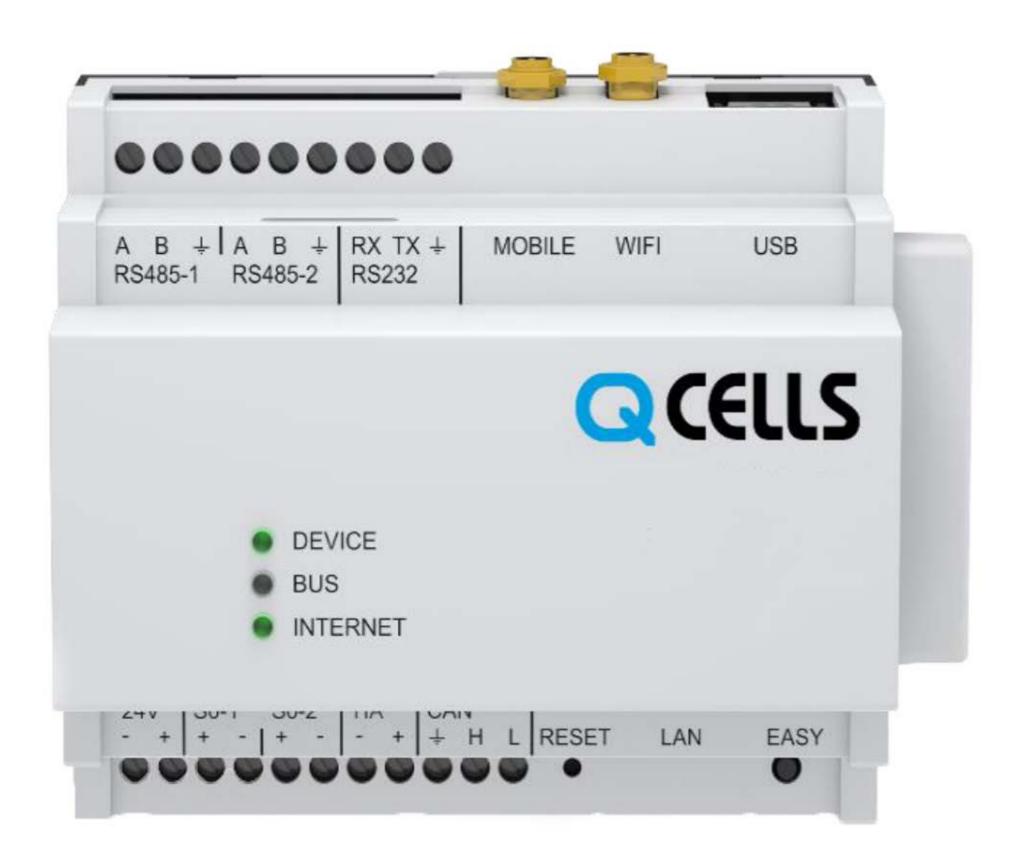


10 YEARS PRODUCT WARRANTY



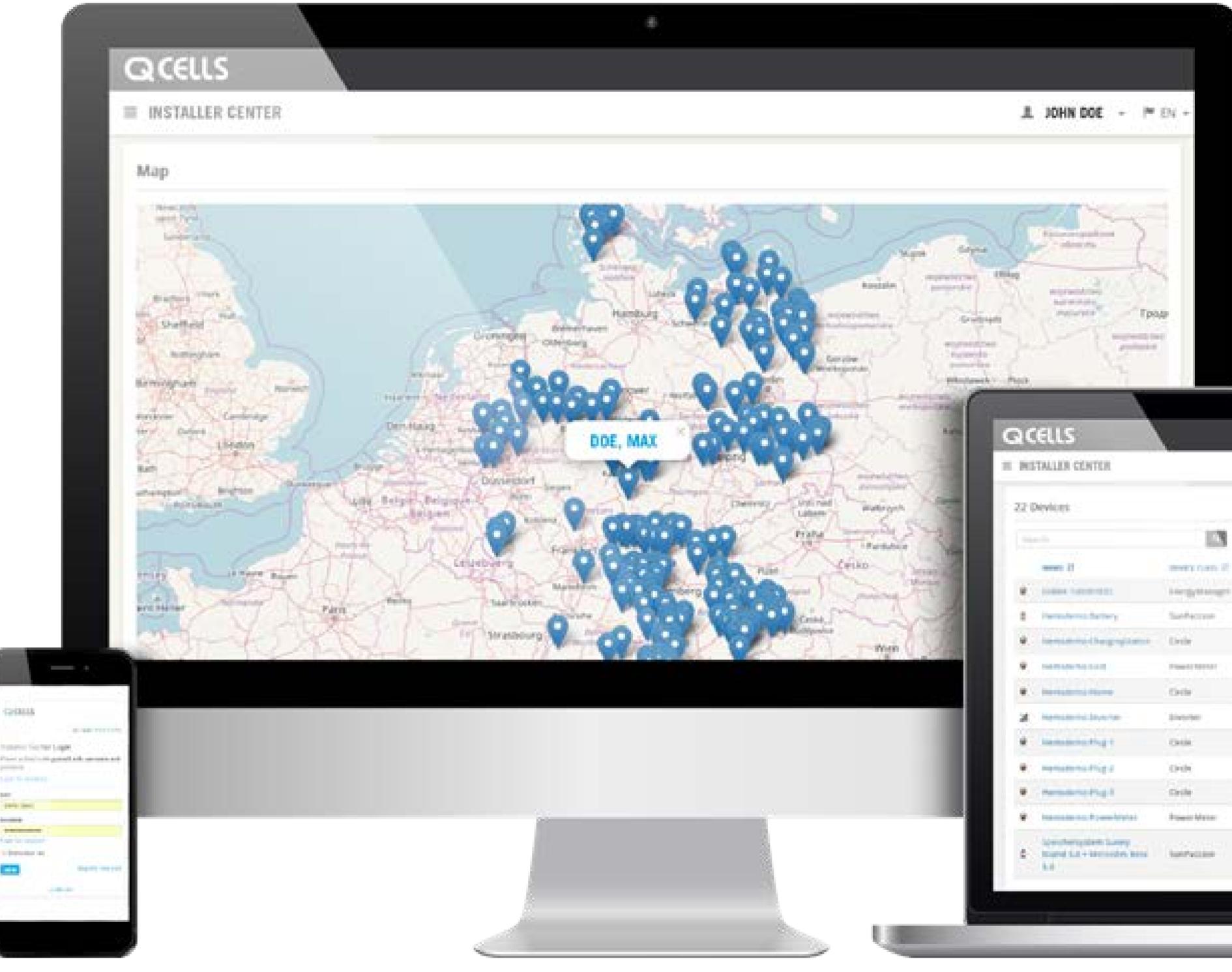








Q.HOME MANAGER – THE SMART HOME ENERGY SOLUTION



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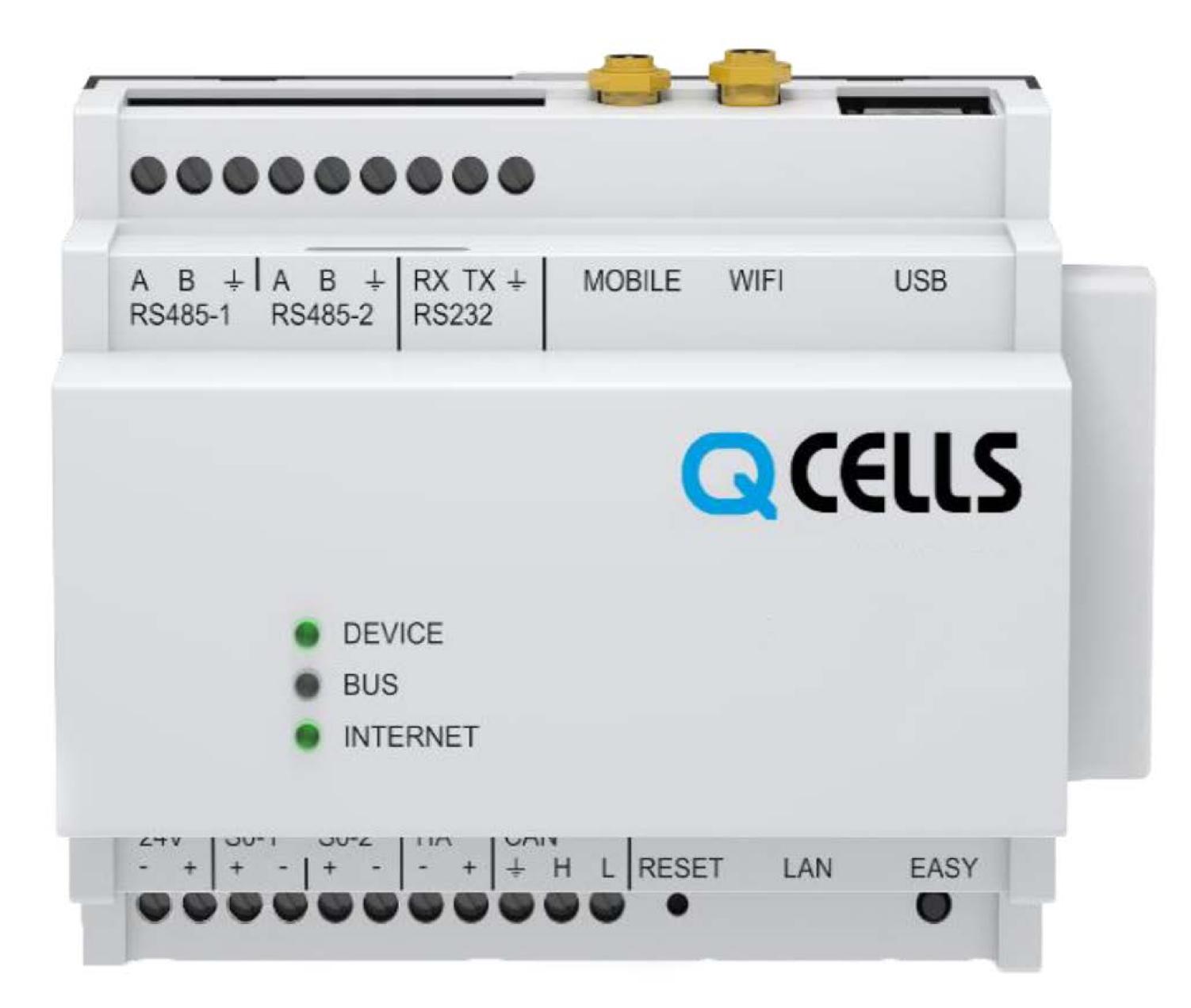
Q CELLS ENERGY MANAGER

THE Q CELLS ENERGY MANAGER IS COMPATIBLE WITH:

- Q.HOME+ ESS-G1 8.0
- Q.HOME+ ESS HYB-G2
- Q.HOME+ ESS AC-G2







Q.HOME MANAGER



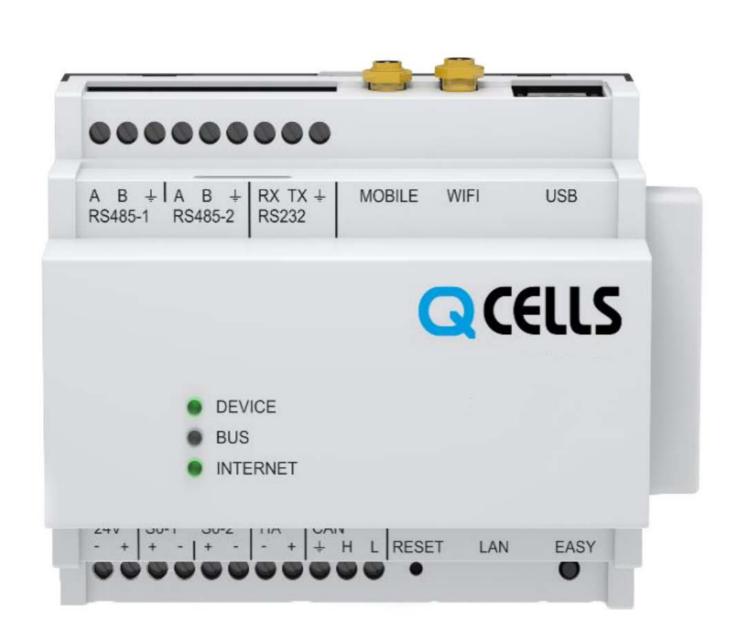
Q.HOME+ ESS-SYSTEM





Q CELLS ENERGY MANAGER









APP

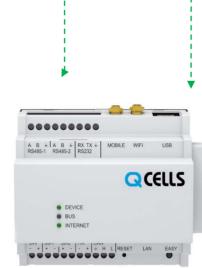
- All energy flows



Live, daily and historic data Independent smart home control

Q CELLS ENERGY MANAGER FOR Q.HOME CLOUD WITH Q.HOME+ ESS HYB-G2

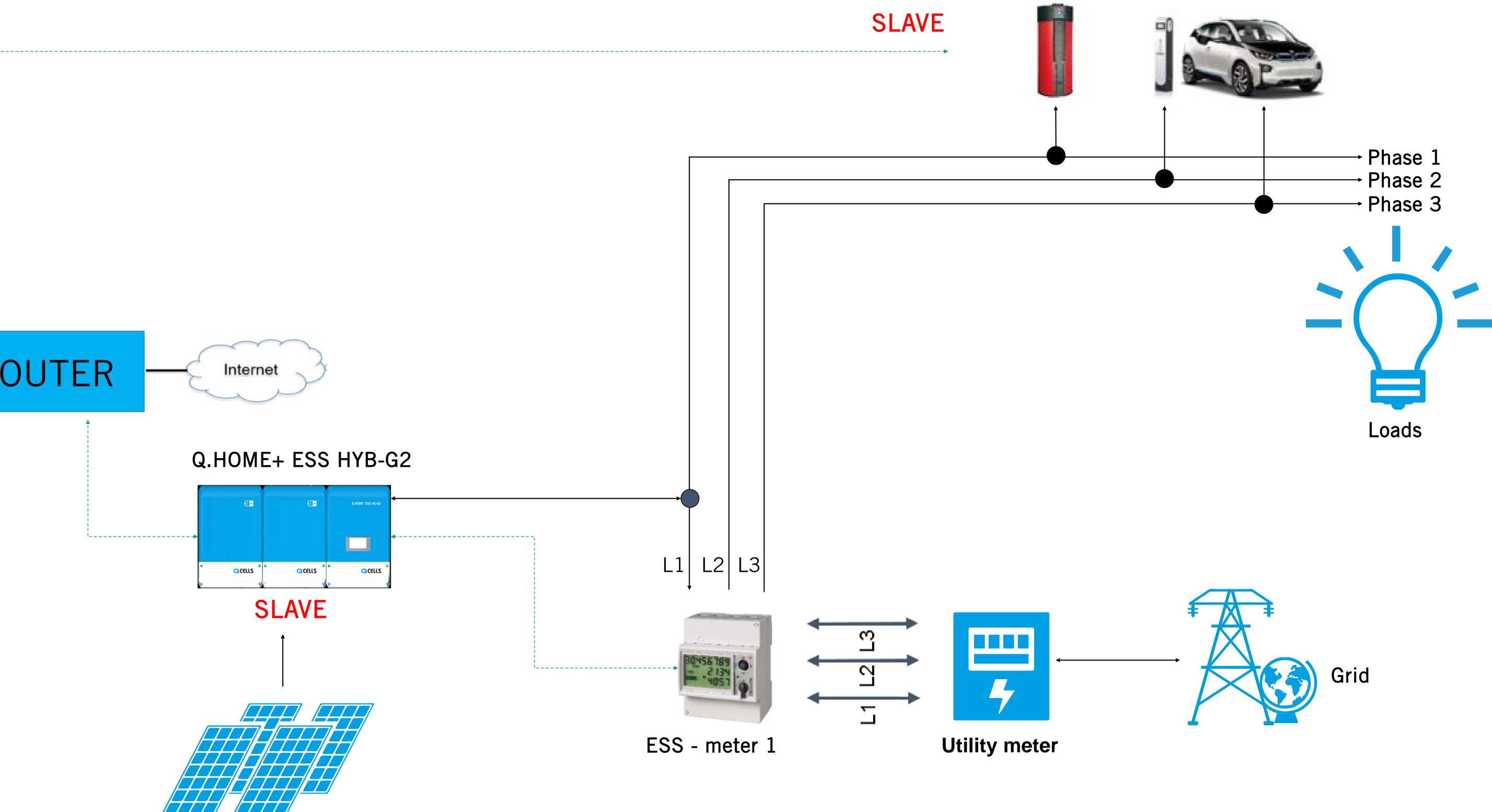
Q CELLS Energy Manager



MASTER





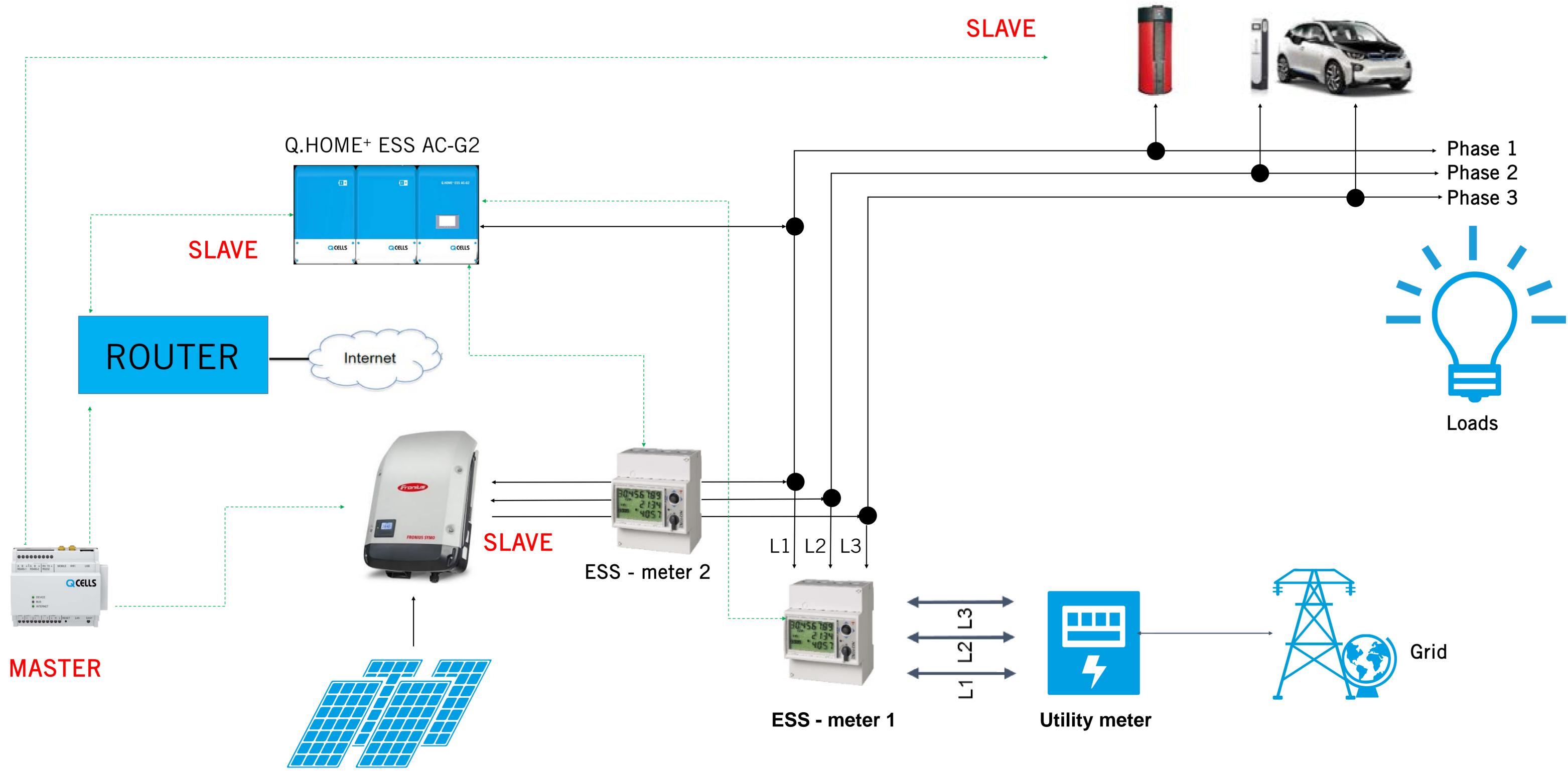


Heat-pump, charging station etc.



Q CELLS ENERGY MANAGER FOR Q.HOME CLOUD SUITABLE FOR EXISTING PV SYSTEM USING Q.HOME+ ESS AC-G2

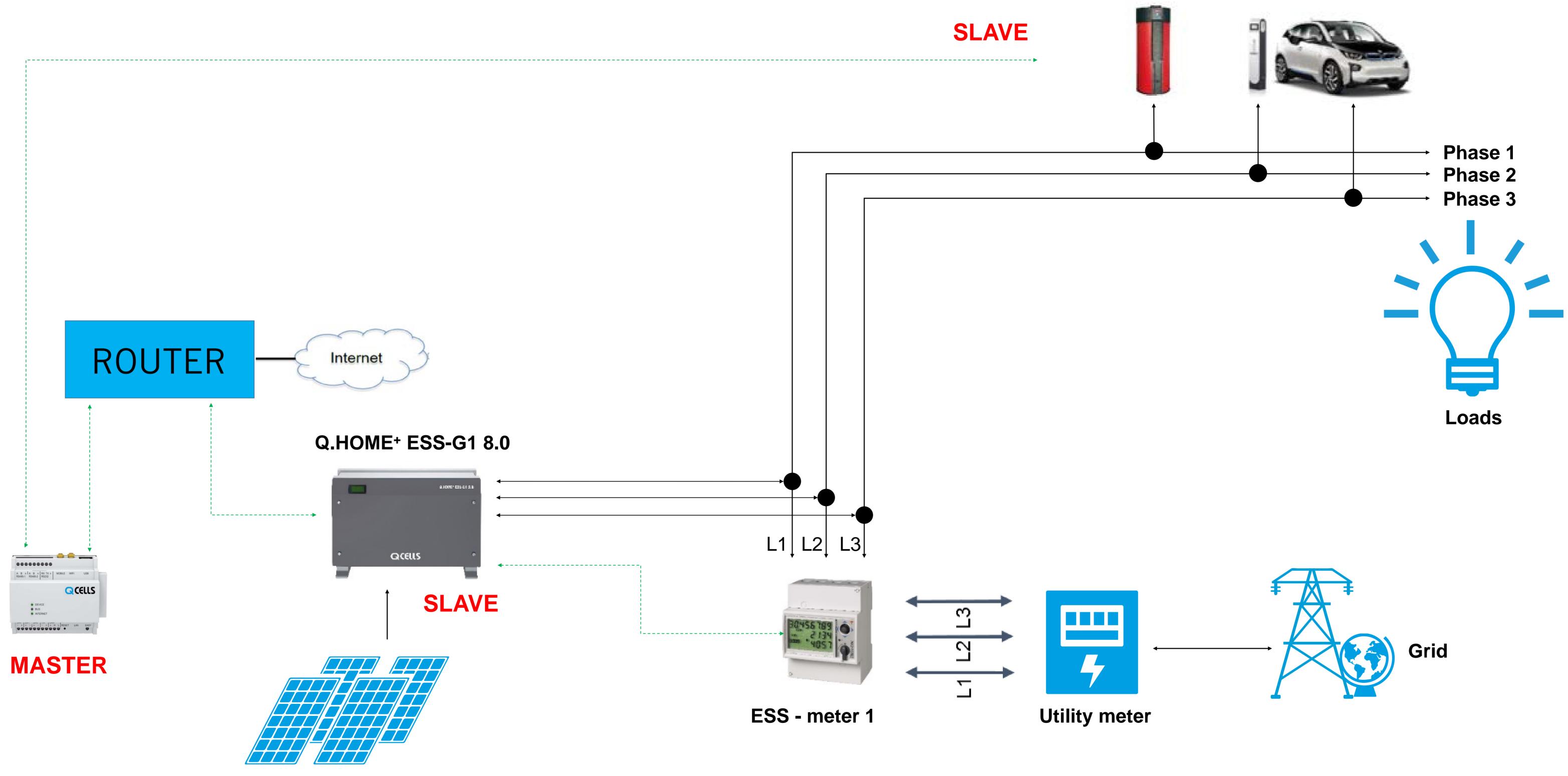






Wärmepumpe, Ladestation etc.





Q CELLS Energy Manager





Q CELLS ENERGY MANAGER FOR Q.HOME CLOUD WITH Q.HOME+ ESS-G1 8.0

Heat-pump, charging station etc.

