**Legend**

- → Electrical Power (MPPT)
- → Electrical Power (HiPwr)
- → Electrical Power (ELV)
- — Rosef CAN Bus
- — Rosef Serial Interface
- → Refrigerant Heat Transfer
- → Secondary Heat Transfer Loop
- ☐ Component Powered by ELV
- ☐ Rosef Designed Assembly / PCB
- ⟩⟨ HiPwr Socket / Plug
- ⟩⟨ ELV Socket / Plug

Water Heater

Condenser with Fan

Compressor

Heatpump Controller

Outside Unit

Ice Thermal Storage

Temperature Controller

Evaporator with Fan

Inside Unit

Refrigerator Module

Condenser with Fan

Compressor

Temperature Controller

Ice Thermal Storage

Refrigerated Compartment

Refrigerator Unit

Water Tank

Well Pump Controller

Washing Machine

Lamp

DC/DC USB PD Interface

Induction Cooktop

Microwave

Kettle

E27

PV Module

DC/DC

LED

DC/DC BMS

BMS Battery Extension

Battery Module

PV Mini

DC/DC

LED

DC/DC BMS

BMS

Battery Mini

LED

DC/DC BMS

BMS

Battery Micro

Smart Home IF

**Legend**

- → Electrical Power (MPPT)
- → Electrical Power (ELV)
- — Rosef CAN Bus
- — Rosef Serial Interface
- → Refrigerant Heat Transfer
- → Secondary Heat Transfer Loop
- □ Component Powered by ELV
- □ Rosef Designed Assembly / PCB
- ⟩⟨ ELV Socket / Plug

Radiator with Fan

Compressor

Temperature Controller

Ice Thermal Storage

Refrigerated Compartment

Refrigerator Unit

DC/DC USB PD Interface

Lamp

E27

DC/DC

PV Mini

LED

BMS

BMS

DC/DC

Battery Mini

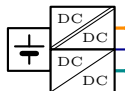PV Module

AC Module

Grid

Battery Extension

Battery Module

- ➤ Electrical Power (MPPT)
- ➤ Electrical Power (HiPwr)
- ➤ Electrical Power (ELV)
- — Rosef CAN Bus
- ➤ Electrical Power (AC)
- ☐ Rosef Designed Assembly / PCB

PV Module

AC Module

Battery Extension

Battery Module

DC/DC

LED

BMS

DC/DC

DC/AC

Grid

Electrical Power (MPPT)
Electrical Power (HiPwr)
Electrical Power (ELV)
Rosef CAN Bus
Electrical Power (AC)
Rosef Designed Assembly / PCB

Water Tank

LED

Legend

→ Electrical Power (MPPT)

→ Electrical Power (ELV)

— Rosef CAN Bus

☐ Component Powered by ELV

☐ Rosef Designed Assembly / PCB

Pump Controller

PV Mini

DC/DC
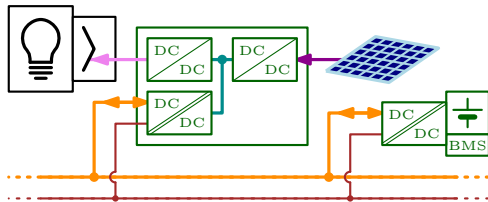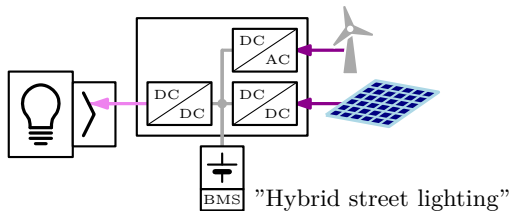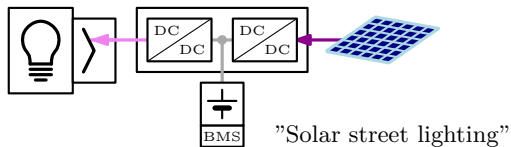
Legend

Electrical Power (MPPT)
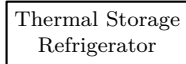Electrical Power (CC)
Electrical Power (ELV)
Electrical Power (HiPwr)
Ethernet TCP/IP
Rosef Designed Assembly / PCB

"Solar street lighting"

"Hybrid street lighting"

SOURCES

PV Mini

PV Module

STORAGE

Battery Module

Battery Mini
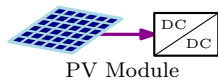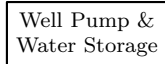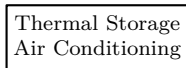
CONTROLABLE LOADS (Direct Storage)

Thermal Storage Air Conditioning

Thermal Storage Refrigerator

Well Pump & Water Storage

INDEPENDENT LOADS

Pluggable Device (24W)

Pluggable Device (280W)

Pluggable Device (3.4kW)
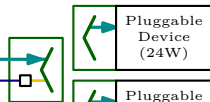
E27

Legend

→ Electrical Power (MPPT)

→ Electrical Power (HiPwr)

→ Electrical Power (ELV)

— Rosef CAN Bus

— Rosef Serial Interface

HiPwr Socket / Plug

ELV Socket / Plug

DC DC

DC DC

DC DC

DC DC

DC DC

Extra Low Voltage

High Power

DC/DC

DC/DC

DC load

AC load

DC load

DC/DC

DC/DC

DC/DC

AC/DC

DC load

DC/DC

DC/DC

DC/DC

DC/AC

DC load

AC load

DC load