

120/240V LV HYBRID  
SOLAR INVERTER

GRID INTERACTIVE

IP65 DESIGN

120V SINGLE PHASE

208V/240V SPLIT PHASE

LVX 12KW WP



### 2X DUAL AC INPUT

Grid + Generator input fulfills redundant backup power supply. Users can control genset function easily from LCD setting



### ARC / RSD PROTECTION<sup>1</sup>

Built-in ARC (arc fault protection) will help detect unwanted PV arcing and RSD (rapid shut down) transmitter feature can quickly cut system output during emergency



### NEW APP ( i.SOLAR )

This is a special APP designed for this model only and offers OTA firmware update feature not available on other APPs.



### ZERO GRID FEED

With standard CT sensor, user can program inverter to utilize PV power entirely for self-use without grid injection.



### BMS (RS485 / CAN)<sup>2</sup>

Pylontech and other 3rd party BMS are supported (specialized BMS cable is required). RS485 and CANbus type are available.



\*IP65 restrictions: do not install units on sites where there is direct exposure to sunlight, rain, snow, >95% humidity, near antenna or at altitude >2km above sea level.

1. RSD transmitter requires RSD-D receiver (optional accessory, sold by AP Smart) on PV array to work and upon fault conditions, inverter will cut output and ensure overall safety.
2. BMS RS485 cable sold separately upon request.

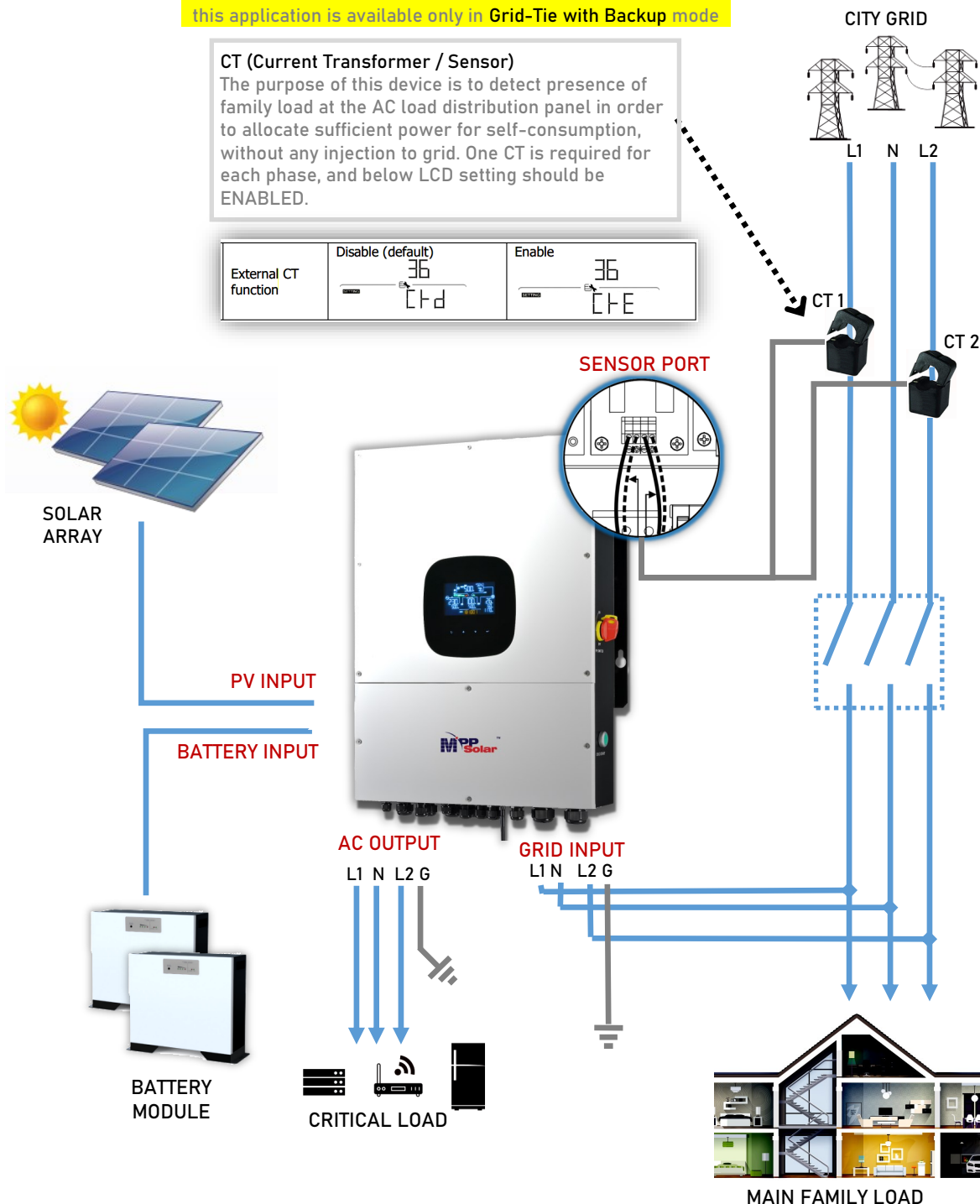
## CT Sensor Application\*

this application is available only in Grid-Tie with Backup mode

### CT (Current Transformer / Sensor)

The purpose of this device is to detect presence of family load at the AC load distribution panel in order to allocate sufficient power for self-consumption, without any injection to grid. One CT is required for each phase, and below LCD setting should be ENABLED.

External CT function	Disable (default)	Enable



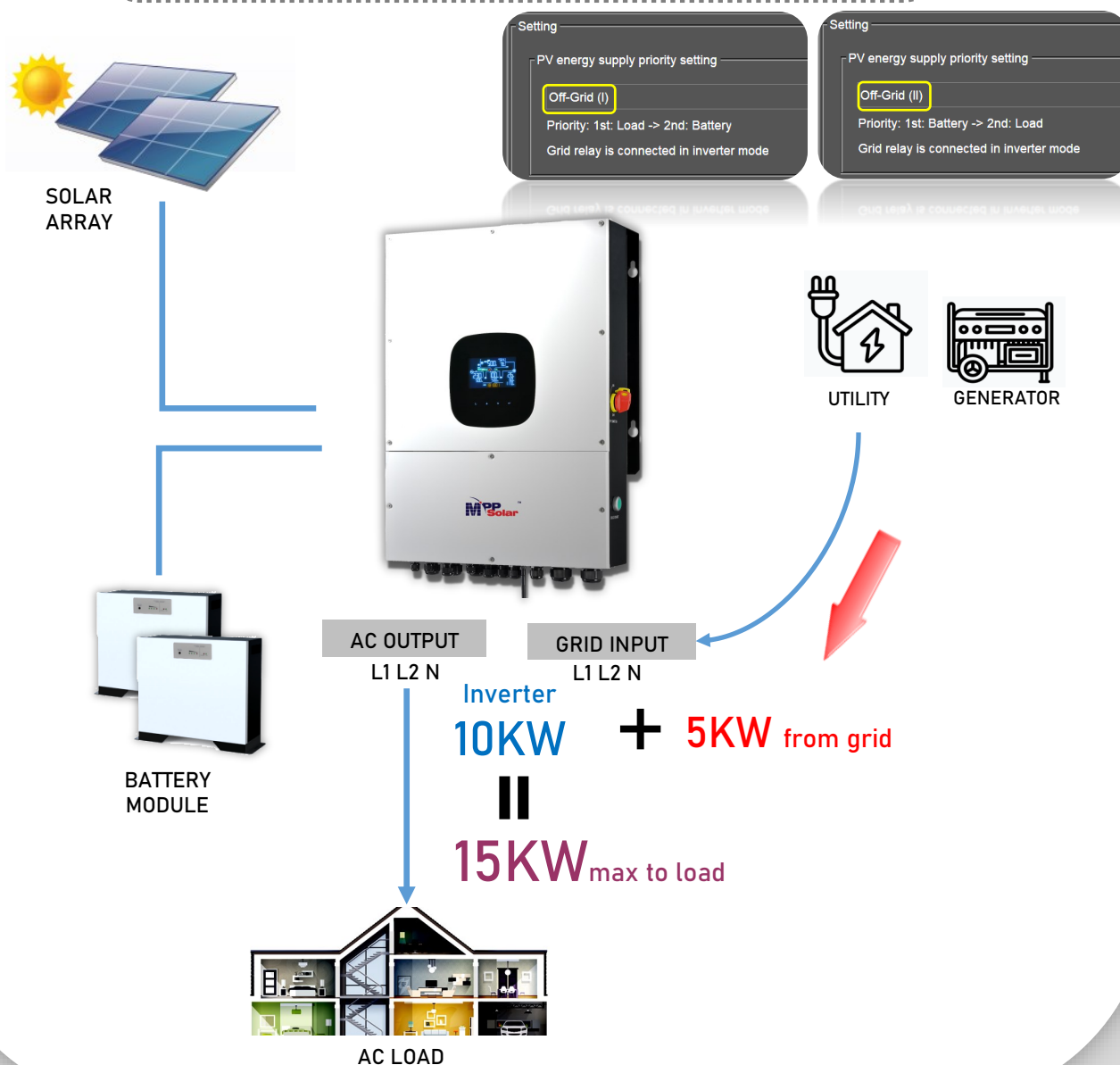
\*CTs are standard accessory and TWO (2) are included with inverter.

## Enabling Grid Relay Feature

this feature can only be activated under OFF-GRID I and II mode

### Q. What is "Grid Relay" ?

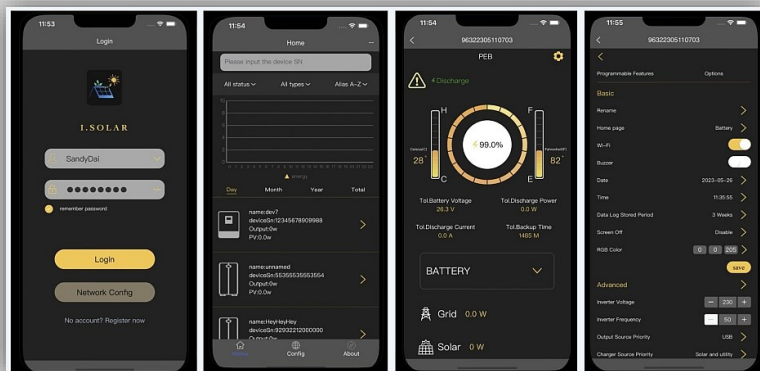
When this feature is enabled and grid is available, the inverter can support load more than its designed maximum output rating (10kw), by combining power supplied from grid or generator source, and reach up to **15kw** max. This function can only be enabled when selecting **Off-Grid I or II mode** and under these modes, grid-injection is disabled.



## 120/240V LV HYBRID SOLAR INVERTER



## NEW I.SOLAR APP Exclusive for LVX 12KW WP only



### IP65 HYBRID INVERTER

### LVX 12KW WP

#### BASIC POWER SPECIFICATION

Max AC Input / Output Power	10000W
System DC Volt	48VDC
AC Input Voltage	120/240V, 120/208V split phase
AC Input Frequency	50 / 60Hz, auto-sensing
Max AC Input Current	60A
Maximum Parallel	Up to 6 units
Grid Relay Power Capacity	15000W
No load / Standby Draw (batt)	99.5W / 20W

#### PV INPUT SPECS

Max PV Input Power	12000W
Max PV Input Volt	600V (Voc)
MPPT Range	120 - 550 VDC
Max PV Input Current	2*18A (30A limit)
Number of PV Input	2
Max Grid-Tie Efficiency	>96%

#### BATTERY OUTPUT & CHARGING SPECS

Output Waveform	Pure Sine Wave
AC Output Voltage	120V single phase, 208/240V split phase
AC Output Frequency	50 / 60Hz, programmable
Max Efficiency	>91%
Max Utility Charging	200A
Max Solar Charging	200A
Max System Charging	200A
Max Bulk/Float Charge	60V

#### ENVIRONMENTAL / MECHANICAL SPECS

IP Rating	IP65
Certification	UL1741SA / CSA
Communication Port	USB / RS232 / BMS / WIFI / Dry Contact
Operating Temp.	-20 ~ 58°C (power derate above 45°C)
Operating Humidity	0 - 90% RH (No Condensing)
Altitude	Max 2000m (derate 1% every 100m above 1000m)
Dimension	715*515*216mm
Net Weight	45KG