

- **All-In-One** - Solar Charge Controller - Inverter - ESS Control Hub
- **Modular and Scalable** up to **36kW** power system size
- **Wi-Fi cloud monitoring** and remote system control - i.Solar App
- **Grid Tie Compliant** with auto start back-up generator function
- **Rapid Shutdown Safety Feature**
- **Certified UL1741SB, UL1741SA, IP65 Waterproof**
- **Split phase and single phase operation**
- **User adjustable Voltage, Current setpoints + Power priority**

## SPECIFICATIONS

### MODEL: LV 6kW - AIO - Solarhub

|                        |                                              |
|------------------------|----------------------------------------------|
| PHASE                  | 120V/240V Split phase, 120V/208V Split phase |
| Maximum PV Input Power | 7500W                                        |
| Rated Output Power     | 6000VA/6000W                                 |
| Maximum Charging Power | 6000W                                        |

### GRID-TIE OPERATION

| PV INPUT (DC)                                  |                   |
|------------------------------------------------|-------------------|
| Maximum DC Voltage                             | 600 VDC           |
| Start-up Voltage / Initial Feeding Voltage     | 120 VDC / 160 VDC |
| MPP Voltage Range                              | 120 VDC ~ 550 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / 15A           |

| GRID OUTPUT (AC)       |                                             |
|------------------------|---------------------------------------------|
| Nominal Output Voltage | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P) |
| Output Voltage Range   | 105.5 VAC - 132 VAC (per phase)             |
| Nominal Output Current | 25 A per phase                              |
| Power Factor           | 0.9 lag to 0.9 lead                         |

| EFFICIENCY                            |     |
|---------------------------------------|-----|
| Maximum Conversion Efficiency (DC/AC) | 96% |

### OFF-GRID, HYBRID OPERATION

| PV INPUT (DC)                                  |                   |
|------------------------------------------------|-------------------|
| Maximum DC Voltage                             | 600 VDC           |
| Start-up Voltage / Initial Feeding Voltage     | 120 VDC / 160 VDC |
| MPP Voltage Range                              | 120 VDC ~ 550 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / 15A           |

| AC INPUT                                   |                                         |
|--------------------------------------------|-----------------------------------------|
| AC Start-up Voltage / Auto Restart Voltage | 85 VAC (per phase) / 90 VAC (per phase) |
| Acceptable Input Voltage Range             | 85 - 140 VAC (per phase)                |
| Maximum AC Input Current                   | 40 A per phase                          |

| BATTERY MODE OUTPUT (AC) |                                             |
|--------------------------|---------------------------------------------|
| Nominal Output Voltage   | 120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P) |
| Output Waveform          | Pure sine wave                              |
| Efficiency (DC to AC)    | 91%                                         |

| BATTERY & CHARGER                  |                    |
|------------------------------------|--------------------|
| DC Voltage Range / Nominal Voltage | 40-62 VDC / 48 VDC |
| Maximum Solar Charging Current     | 120A               |
| Maximum AC Charging Current        | 120A               |
| Maximum Charging Current           | 120A               |

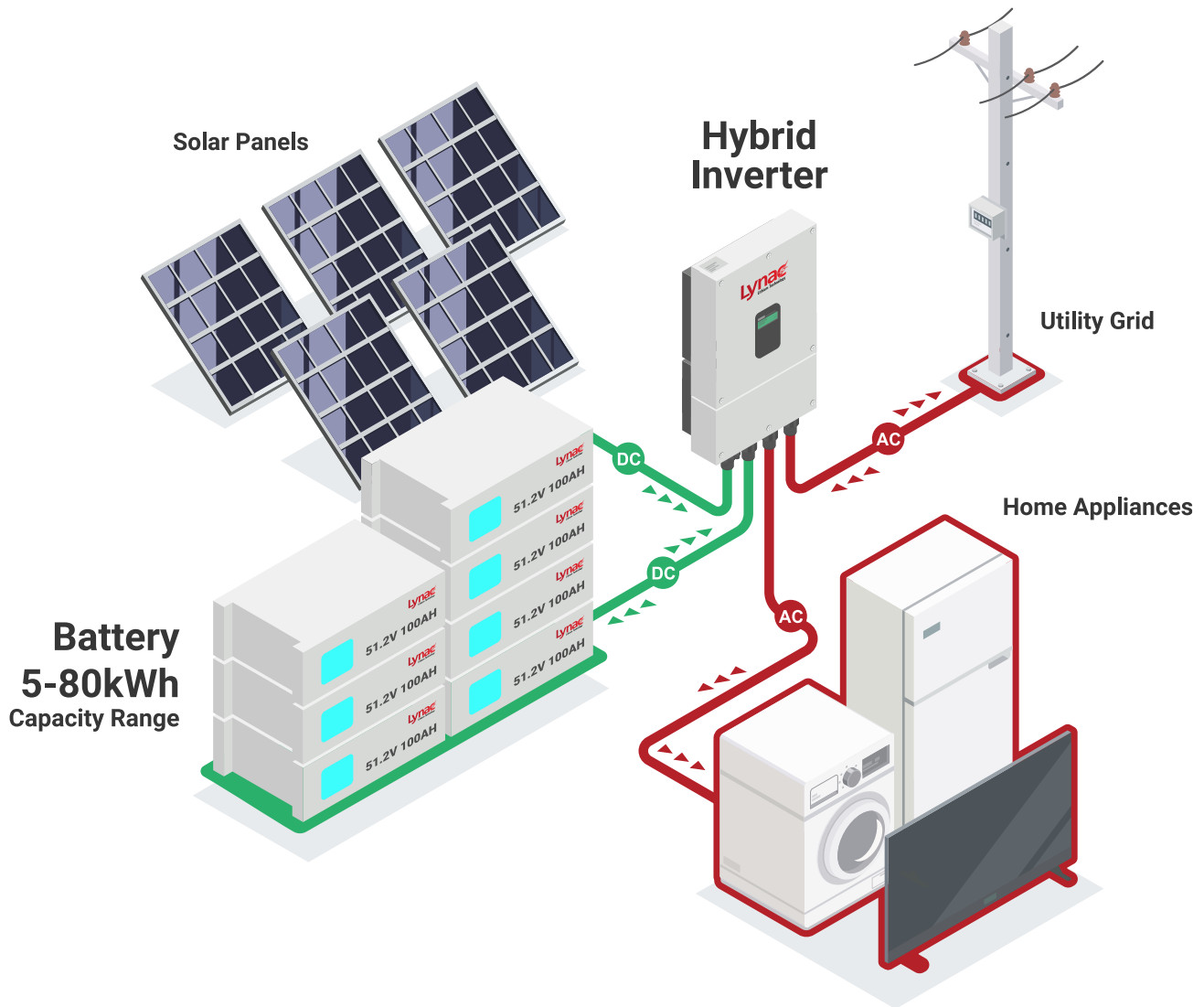
### GENERAL

| PHYSICAL                  |                                              |
|---------------------------|----------------------------------------------|
| Dimension, D x W x H (mm) | 215.5 x 515 x 700                            |
| Net Weight (kgs)          | 41                                           |
| INTERACE                  |                                              |
| Parallel Function         | Yes, 6 units                                 |
| Communication Port        | RS232, RS485, Wi-Fi, USB                     |
| ENVIRONMENT               |                                              |
| Operating Temperature     | -25°C to 60°C (>45°C derating)               |
| STANDARD                  |                                              |
| Protection Degree         | IP 65                                        |
| Safety                    | UL1741SA, UL1741SB, CSA 22.2.107.1, CEC, CRD |
| Grid Connection Standard  | IEEE1547.1-2020                              |
| EMC                       | FCC CRF47 PART15 B                           |

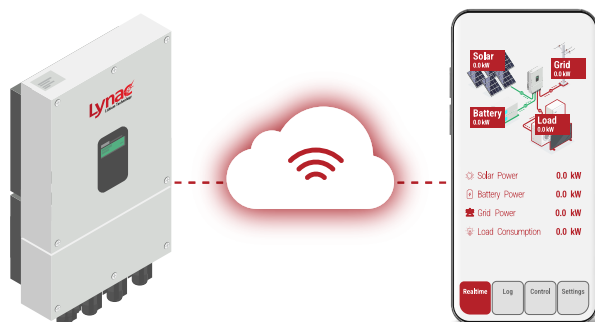


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## REMOTE WIFI CLOUD MONITORING AND CONTROL



### WiFi Cloud Monitoring and Control

Our WiFi-enabled Solarhub uses advanced cloud-based software, providing effortless connectivity to the All-in-One energy system. Command, control, and monitor every aspect of your energy setup from anywhere with the app.

- Connect to your system from any location
- View real-time solar, grid, load, and battery data
- Manage and log power generation
- Adjust system settings instantly

[Read an article](#)

### Direct Communication with Battery Systems

- Automatically sync with CANbus or MODbus
- Monitor status and adjust settings remotely

