

# iGarden Sunshine Life

the 1st Free Energy Outdoor Solution

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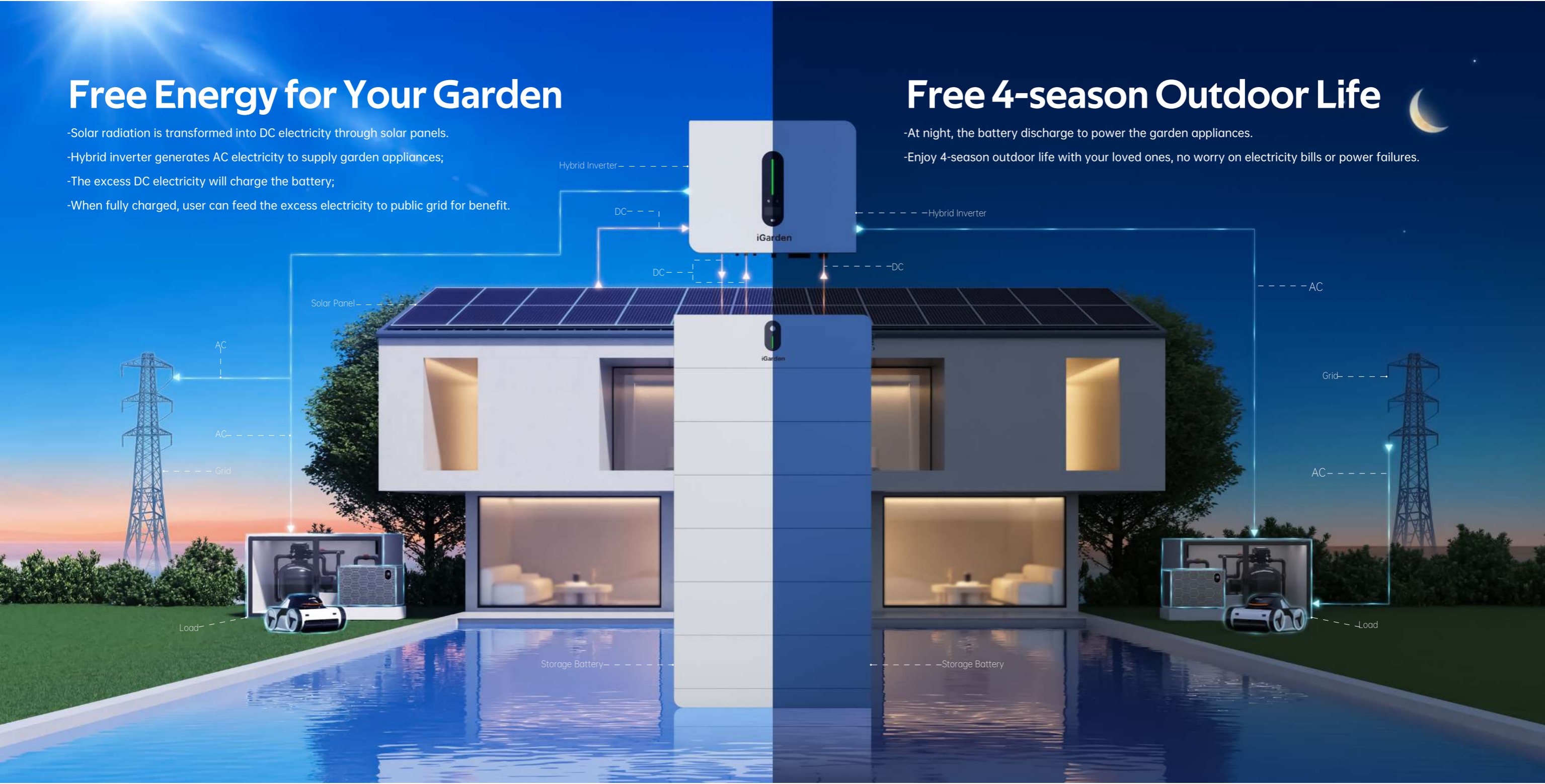


# Free Energy for Your Garden

- Solar radiation is transformed into DC electricity through solar panels.
- Hybrid inverter generates AC electricity to supply garden appliances;
- The excess DC electricity will charge the battery;
- When fully charged, user can feed the excess electricity to public grid for benefit.

# Free 4-season Outdoor Life

- At night, the battery discharge to power the garden appliances.
- Enjoy 4-season outdoor life with your loved ones, no worry on electricity bills or power failures.



# iGarden™ Solar Energy Storage System

Hybrid Inverter & High Voltage Scalable Battery



Max. efficiency up to **98.2%**

More efficient PV power usage



Backup power supply in **10ms**

Shortest UPS switching time, guarantee electricity supply



Smart garden energy solution by **one-button switch**

5 operating modes create the best energy-saving solution



## Technical Specifications

| Suggested Pool Size *           |                                  | 30-50 m <sup>2</sup>             | 40-65 m <sup>2</sup>                                                        | 55-90 m <sup>2</sup>               |           |
|---------------------------------|----------------------------------|----------------------------------|-----------------------------------------------------------------------------|------------------------------------|-----------|
| Rooftop Area *                  |                                  | 36~40 m <sup>2</sup>             | 56~60 m <sup>2</sup>                                                        | 72~76 m <sup>2</sup>               |           |
| Model NO.                       |                                  | <b>1PH5K-M(2-4)</b>              | <b>3PH8K-M(3-6)</b>                                                         | <b>3PH10K-M(4-8)</b>               |           |
| Hybrid Inverter                 | PV Input                         | Max. Input Power(KW)             | 8000                                                                        | 12000                              | 15000     |
|                                 |                                  | Max.DC Input Voltage(V)          | 600                                                                         | 1000                               |           |
|                                 |                                  | MPPT Voltage Range(V)            | 100-550                                                                     | 200-950                            |           |
|                                 |                                  | No. of MPP Trackers              | 2                                                                           | 2                                  |           |
|                                 |                                  | Max.Input Current(A)             | 15/15                                                                       | 15/15                              |           |
|                                 | Battery connection               | Battery Type                     | Li-ion(LFP)                                                                 |                                    |           |
|                                 |                                  | Battery Voltage Range(V)         | 65-450                                                                      | 135-750                            |           |
|                                 |                                  | Max.Charge/Discharge Current(A)  | 30/30                                                                       | 25/25                              |           |
|                                 | Output AC (on-grid)              | Rated Output Power(KW)           | 5000                                                                        | 8000                               | 10000     |
|                                 |                                  | Max. Output Apparent Power(KVA)  | 5500                                                                        | 8800                               | 11000     |
|                                 |                                  | Max. Output Current(A)           | 25                                                                          | 13.3                               | 16.5      |
|                                 |                                  | Rated Output Voltage(V)          | L/N/PE, 220/230/240                                                         | 3L/N/PE, 220/380; 230/400; 240/415 |           |
|                                 |                                  | Rated AC Frequency(Hz)           | 50/60                                                                       |                                    |           |
|                                 |                                  | Power Factor                     | >0.99 (0.8 leading ... 0.8 lagging, adjustable)                             |                                    |           |
|                                 | Output AC (back-up)              | THDI                             | 1<3% @ Rated output power                                                   |                                    |           |
|                                 |                                  | Rated Output Power(KW)           | 5000                                                                        | 8000                               | 10000     |
|                                 |                                  | Max. Output Apparent Power(KVA)  | 5500                                                                        | 8800                               | 11000     |
|                                 |                                  | Peak Output Apparent Power(KVA)  | 6500,60s                                                                    | 16000,60s                          | 20000,60s |
|                                 |                                  | Rated Output Voltage(V)          | L/N/PE, 220/230/240                                                         | 3L/N/PE, 220/380; 230/400; 240/415 |           |
|                                 |                                  | Switch time (on-grid to back-up) | <10ms                                                                       |                                    |           |
|                                 |                                  | Rated Output Frequency(Hz)       | 50/60                                                                       |                                    |           |
|                                 | General Data                     | THDV                             | <3% @Linear load                                                            |                                    |           |
|                                 |                                  | Compliance                       | IEC/EN 62109, IEC/EN 61000, EN50549 -1, TOR Generator Type A, VDE-AR-N-4105 |                                    |           |
|                                 |                                  | Dimensions (WxHxD mm)            | 534x418x210                                                                 |                                    |           |
| Weight (KG)                     |                                  | 27                               |                                                                             |                                    |           |
| Ingress protection              |                                  | IP65                             |                                                                             |                                    |           |
| Operating Temperature Range(°C) |                                  | -30~60                           |                                                                             |                                    |           |
| Communication                   | CAN, RS485, WIFI. (LAN Optional) |                                  |                                                                             |                                    |           |

\* Rooftop area refer to effective installed area.  
\* The suggested pool size is for reference only.



## An independent power supply without any compromises.

The iGarden energy storage system increases your independence while noticeably decreasing the amount of electricity you need to buy from the grid. Surplus energy is stored for later use, just when you need it.

- Flexible expansion (up to 60kWh)
- 15A PV input, compatible with high-power PV panels(180/210)
- Horizontal layout support more wiring space & shorter air duct for quick cooling
- One-key upgrade system for easy maintenance
- Pouch Cell offer safety guarantee
- Unique Patented design, fit more household scenarios
- iGarden APP digitalized energy management
- Wall mounted vertical installations, Simple and convenient
- Economic mode achieve energy freedom and cost-efficiency (Peak load shifting optional)

| Battery | General Data | Compatible Battery Capacity     | 5kwh *2 / 5kwh *3 / 5kwh *4                   | 5kwh *3 / 5kwh *4 / 5kwh *5 / 5kwh *6 | 5kwh *4 / 5kwh *5 / 5kwh *6 / (5kwh *4)*2 |
|---------|--------------|---------------------------------|-----------------------------------------------|---------------------------------------|-------------------------------------------|
|         |              | Usable Capacity                 | 95% DOD (1 pcs 5kwh Module)                   |                                       |                                           |
|         |              | Nominal / Working Voltage(V)    | 102.4 / 91.2-115.2 (1 pcs 5kwh Module)        |                                       |                                           |
|         |              | Max.Charge/Discharge Current(A) | 25 / 40 (1 pcs 5kwh Module)                   |                                       |                                           |
|         |              | Weight (KG)                     | 48 (1 pcs 5kwh Module)                        |                                       |                                           |
|         |              | Ingress protection              | IP55                                          |                                       |                                           |
|         |              | Working Temperature             | Charging: -10°C~50°C, Discharging: -20°C~50°C |                                       |                                           |
|         |              | Cycle Life                      | > 6000 (25°C)                                 |                                       |                                           |
|         |              | Certification                   | CE, IEC62619, IEC61000-6-1/3                  |                                       |                                           |