

# RESIDENTIAL ESS SOLUTION ALL-IN-ONE ENERGY STORAGE SYSTEM

## DEYE SPRING RW SERIES



### Enhanced Reliability

- Built-in Intelligent BMS, providing complete protection
- Natural cooling, IP65, wide temperature range : -10°C to 55°C



### Smart Application

- Peak-shaving, smart load, AC couple etc.
- Fast switching time of 4ms, ensuring your energy security



### Flexible Expansion

- Max.16 units in parallel ( 57.6kW/84.8kWh or 80kW/84.8kWh )
- Support expansion of Deye 5.3kWh LV battery, Max. capacity of 164.3kWh



### All-in-One Design

- Integrated 3.6kW hybrid inverter and 5.3kWh LFP battery, or 5kW hybrid inverter and 5.3kWh LFP battery, safety and long lifespan



### Easy Installation

- Flat design, wall-mounted, saving installation space, quick and easy installation



### Intelligent Control

- Comfortable and easy control via App, PC or Touch-Display

≥6000

Cycles

4ms

Fast Switching Time

70%

EOL

IP65

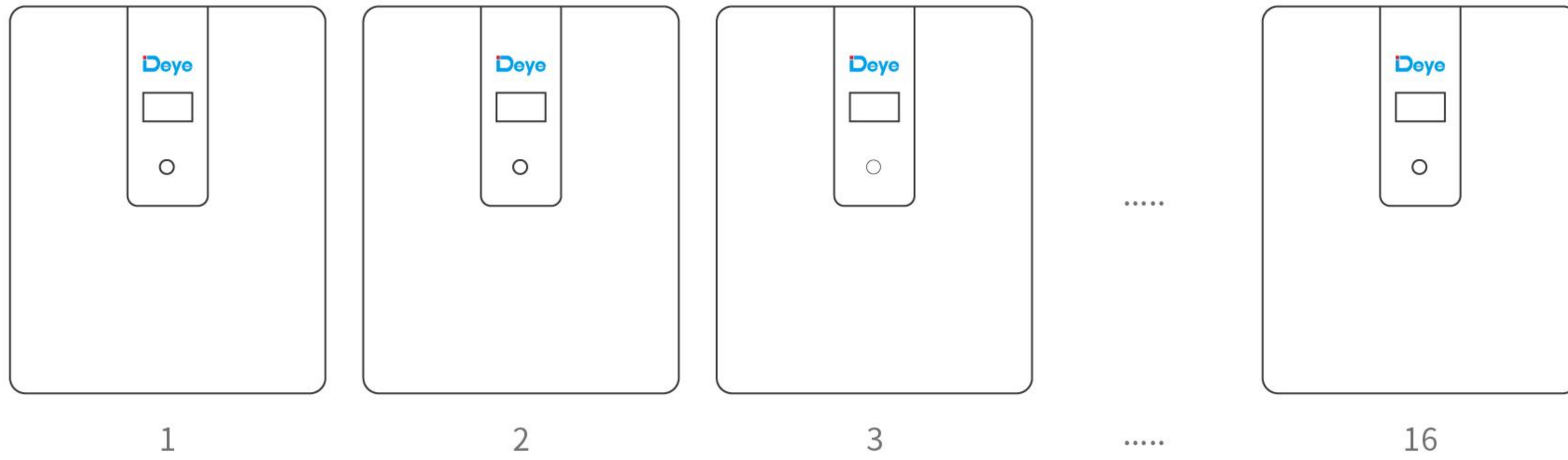
Rated for indoor and outdoor use

Model	RW-F5.3-2H3	RW-F5.3-1H3
<b>AC Technical Specification</b>		
Rated AC Input / Output Active Power ( W )	3600 / 3600	5000 / 5000
Max AC Input / Output Apparent Power ( VA )	3960	5500
Peak Power ( off grid )	2 time of rated power, 10s	
AC Output Rated Current ( A )	16.4 / 15.7	22.8 / 21.8
Max. AC Current ( A )	18 / 17.3	25 / 24
Max Continuous AC Passthrough ( grid to load ) ( A )	35	
Rated Input / Output Voltage / Range ( V )	220V / 230, 0.85Un-1.1Un	
Rated Input / Output Grid Frequency/Range ( Hz )	50Hz / 45Hz - 55Hz, 60Hz / 55Hz - 65Hz	
Grid Connection Form	L+N+PE	
Power Factor	0.8 leading to 0.8 lagging	
Total Harmonic Distortion ( THDi )	<3% ( of nominal power )	
DC injection current ( mA )	<0.5% In	
<b>DC Technical Specification</b>		
Max. PV Access Power ( W )	7200	10000
Max. PV Input Power ( W )	5760	8000
Max. PV Input Voltage ( Vdc )	500	
Start Up PV Voltage ( Vdc )	125	
MPPT Voltage Range ( Vdc )	150 ~ 425	
Full Load MPPT Voltage Range ( Vdc )	300 ~ 425	
Rated PV Input Voltage ( Vdc )	370	
Max. Operating PV Input Current ( A )	18+18	
Max. PV Input Short-circuit Current ( A )	27+27	
Number of MPP Trackers	2	
No. of Strings Per MPP Tracker	1 + 1	
Battery Chemistry	LiFePO <sub>4</sub>	
Battery Nominal Voltage ( V )	51.2	
Battery Energy Configuration ( kWh )	5.32	
Max. Charging / Discharging Current ( A )	75	100
Battery Operating Voltage ( V )	44.8 ~ 57.6	
Battery Cycle Life	≥6000 ( @25°C±2°C, 0.5C / 0.5C, 70%EOL )	
<b>Other Technical Specification</b>		
Dimension ( W × D × H, mm )	616 × 191 × 690 ( Excluding connectors and brackets )	
Weight Appr. ( kg )	71	
IP Rating of Enclosure	IP65	
Operating Temperature Range ( °C )	-10°C ~ 55°C	
Permissible Ambient Humidity	0~100%	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II ( DC ), OVC III ( AC )	
Type Of Cooling	Natural Cooling	
Noise ( dB )	<30	
Display	Touch LCD	
Monitor Mode	WIFI, Bluetooth	
Installation Style	Wall-Mounted, Floor-Mounted	
Max. Efficiency	97%	
Max. charging / discharging Efficiency	95.5%	
MPPT Efficiency	>99%	
Safety EMC / Standard	IEC / EN 61000-6-1 / 2 / 3 / 4 , IEC / EN 62109-1, IEC / EN 62109-2	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Certification	UN38.3, IEC62619	
Warranty	5/10 years (the Warranty Period Depends the Final Installation Site. More Info Please Refer to Warranty Policy)	

## Maximum support for 16 units in parallel

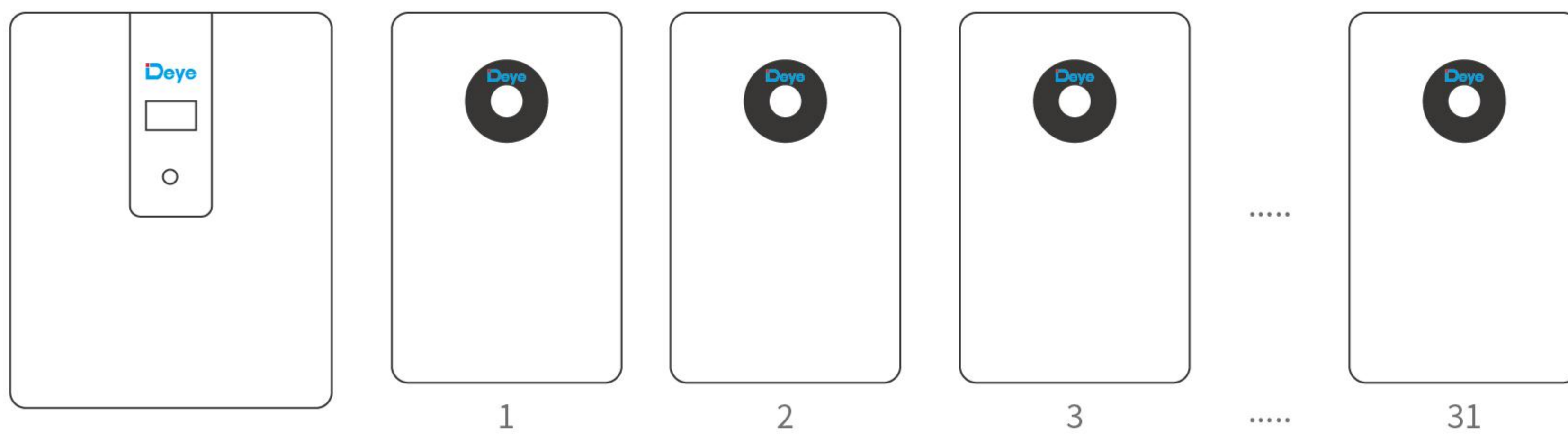
RW-F5.3-2H3 57.6kW/84.8kWh

RW-F5.3-1H3 80kW/84.8kWh

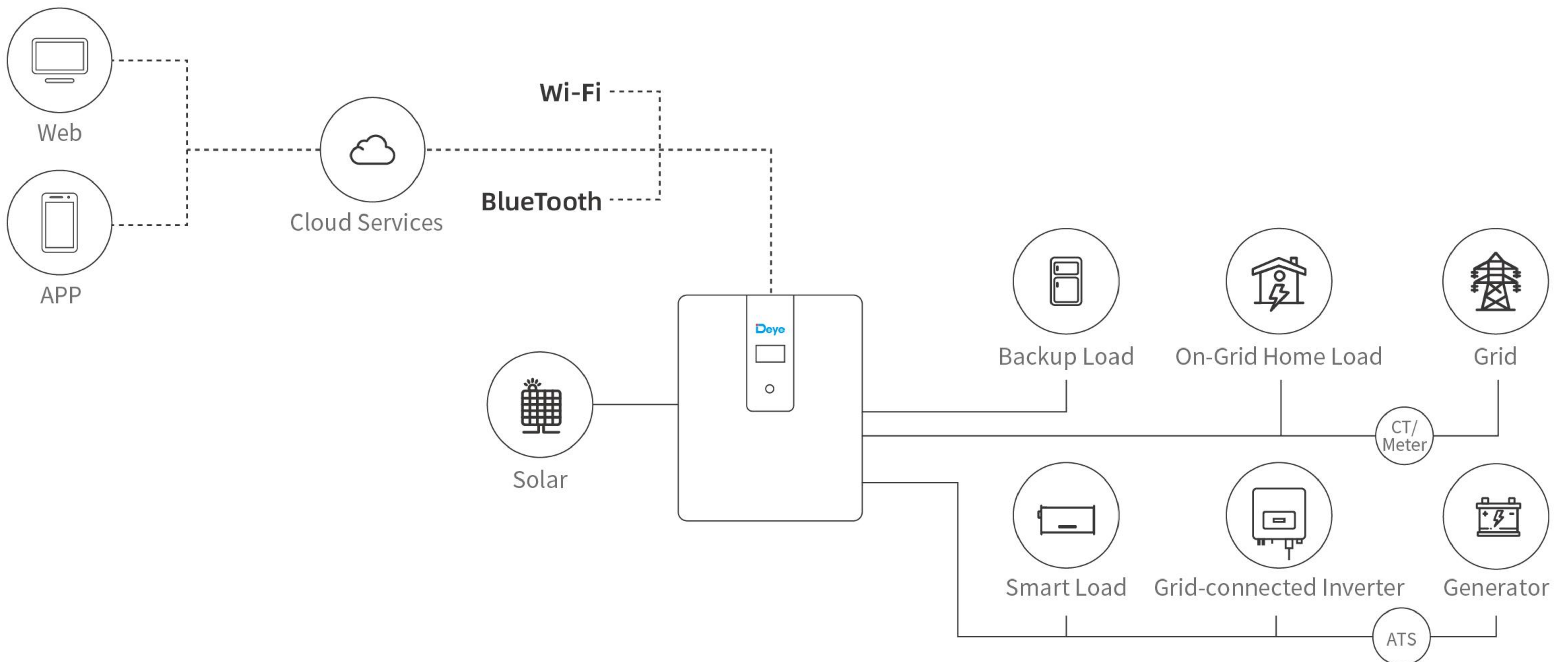


## Maximum support for 31 Deye RW-L5.3 in parallel

RW-L5.3 and RW-F5.3-1H3/RW-F5.3-2H3 164.3kWh



## System Application Topology Diagram





***To Make ESS Better***



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