

## PV + Energy Storage Solution for C&I Application

Solinteg Interg M 25/30/36/40/50kW Hybrid Inverter

Lithium Valley LV-IESS-RH6.912/14.336/10.240 Series battery

98.8%

Max Efficiency

100%

Unbalanced output

100A

Charge/Discharge



### Integ M 50kW Hybrid Inverter

Integrate with Double DSP + FPGA + ARM

VS

### Traditional ESS Equipment

Inverter + On/Off grid switch + PCS +EMS



#### More Yield

Harvest more power with high efficiency up to 98.8%



#### Higher Reliability

Simple system structure reduces the risk of failure



#### Lower Cost

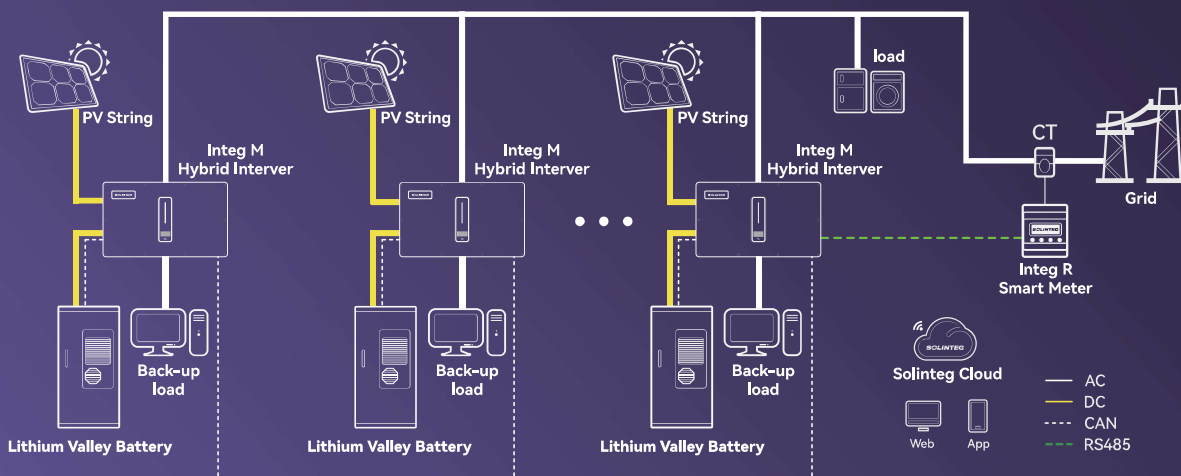
Less equipment to save on transportation installation and maintenance costs



#### Convenient Installation

Flexible installation location with IP65 protection degree

## Decentralized System for C&I Applications



| Model          |                                        | MHT-25K-100                                              | MHT-30K-100        | MHT-36K-100 | MHT-40K-100 | MHT-50K-100 |
|----------------|----------------------------------------|----------------------------------------------------------|--------------------|-------------|-------------|-------------|
| PV Input       | Recommended Max. input power [kW]      | 37.5                                                     | 45.0               | 54.0        | 60.0        | 75.0        |
|                | Start-up voltage [V]                   | 135                                                      | 135                | 135         | 135         | 135         |
|                | Max. DC input voltage* [V]             | 1000*                                                    | 1000*              | 1000*       | 1000*       | 1000*       |
|                | Rated DC input voltage [V]             | 620                                                      | 620                | 620         | 620         | 620         |
|                | MPPT voltage range* [V]                | 200-850*                                                 | 200-850*           | 200-850*    | 200-850*    | 200-850*    |
|                | No. of MPP trackers                    | 4                                                        | 4                  | 4           | 4           | 4           |
|                | No. of DC inputs per MPPT              | 2                                                        | 2                  | 2           | 2           | 2           |
|                | Max. input current [A]                 | 30×4                                                     | 30×4               | 30×4        | 30×4        | 30×4        |
|                | Max. short-circuit current [A]         | 40×4                                                     | 40×4               | 40×4        | 40×4        | 40×4        |
| Battery Side   | Battery type                           | LV-IESS-RH6.912 LV-IESS-RH14.336 LV-IESS-RH10.240 Series |                    |             |             |             |
|                | Battery voltage range [V]              | 135-750                                                  |                    |             |             |             |
|                | Maximum charging/discharge current [A] | 100/100                                                  |                    |             |             |             |
|                | Battery capacity range [KWh]           | 20-172KWh                                                |                    |             |             |             |
| Grid Side      | Rated output power [kW]                | 25.0                                                     | 30.0               | 36.0        | 40.0        | 50.0        |
|                | Max. output apparent power [kVA]       | 27.5                                                     | 33.0 <sup>1)</sup> | 39.6        | 44.0        | 55.0        |
|                | Max. input apparent power** [kVA]      | 30.0                                                     | 36.0               | 43.5        | 48.0        | 60.0        |
|                | Max. charging power of battery [kW]    | 25.0                                                     | 30.0               | 36.0        | 40.0        | 50.0        |
|                | Rated AC voltage                       | 3L/N/PE; 220/380V;230/400V;240/415V                      |                    |             |             |             |
|                | Rated AC frequency [Hz]                | 50/60                                                    | 50/60              | 50/60       | 50/60       | 50/60       |
|                | Max. output current [A]                | 42.0                                                     | 50.0 <sup>2)</sup> | 60.0        | 66.0        | 83.0        |
| Back-up Side   | Rated output power [kW]                | 25.0                                                     | 30.0               | 36.0        | 40.0        | 50.0        |
|                | Max. output apparent power [kVA]       | 27.5                                                     | 33.0               | 39.6        | 44.0        | 55.0        |
|                | Max. output current [A]                | 42.0                                                     | 50.0               | 60.0        | 66.0        | 83.0        |
|                | UPS switching time                     | <20ms                                                    | <20ms              | <20ms       | <20ms       | <20ms       |
|                | Rated output voltage                   | 3L/N/PE; 220/380V;230/400V;240/415V                      |                    |             |             |             |
|                | Rated output frequency [Hz]            | 50/60                                                    | 50/60              | 50/60       | 50/60       | 50/60       |
| Generator Side | Max. input apparent power** [kW]       | 30.0                                                     | 36.0               | 43.5        | 48.0        | 60.0        |
|                | Max. charging power of battery [kW]    | 25.0                                                     | 30.0               | 36.0        | 40.0        | 50.0        |
|                | Rated AC voltage                       | 3L/N/PE; 220/380V;230/400V;240/415V                      |                    |             |             |             |
|                | Rated AC frequency [Hz]                | 50/60                                                    | 50/60              | 50/60       | 50/60       | 50/60       |

\* PV Max. Input voltage is 850V, otherwise inverter will be waiting;

\*\* Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) AS 4777.2, VDE-AR-N 4105: 30.0kVA; 2) AS 4777.2, VDE-AR-N 4105: 43.5A;



**Well compatible with Lithium Valley C&I storage system**



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LV-IESS-RH6.912/14.336/10.240 Series