

# Project/Product name:

## *Modular Energy Storage: 50kWh*



Lithium technology battery pack managed by advanced BMS (Battery Management System). Active cell balancing supports extended lifetime.

Reliable CAN BUS communication interface is responsible for stable communication to power inverter and telemetric system (\*)

Container Energy storage is equipped with two-way 50kW DC/AC power inverter (on-grid and off-grid).

increase the efficiency of Energy usage of the photovoltaic (PV) system. Optimal solution will support effective Energy usage in the building and support availability of the AC power supply in case of electric grid failure.

	1 MODULE	2 MODULES	4 MODULES
Nominal Voltage	48,1 V (192,4 V optional)	48,1 V (192,4 V optional)	48,1 V (192,4 V optional)
Nominal Capacity	> 3,3 kWh	> 6,6 kWh	> 13,2 kWh
Functional Capacity	3,0 kWh	6,0 kWh	12 kWh
Max Continuous Discharge Power	3,0 kW	6,0 kW	12 kW
Peak Discharge Power (15 sec)	5,0 kW	10,0 kW	20 kW
Intelligent BMS (BatteryManagementSystem)	YES	YES	YES
Active cel balancing	YES	YES	YES
Communication interface	CAN (RS485 optional)	CAN (RS485 optional)	CAN (RS485 optional)
Lifetime (70% capacity retention ratio)	>2000 cycles	>2000 cycles	>2000 cycles

\* If ordered

It is perfect solution if You have access to the diesel generator – our system can significantly reduce power consumption by reducing „idling” of high power generator with low load.

You can increase the efficiency of energy storage system by integrating this with our portable PV container module. It can produce even >30 % of used energy.

Optimal solution will suport effective energy management and avalibility of the energy supply even in case of grid failure and diesel generator failure.

Hybrid mode allows to run the diesel generator only, if it can be used in max available efficiency. This solutuion saves money on fuel avoiding low efficiency run-time.

You can reach reduction of run-time from >700 hours/month to 250-300 hours/month. This is spectacular cost reduction factor and extends up to 3 times the maintanance interval.

