



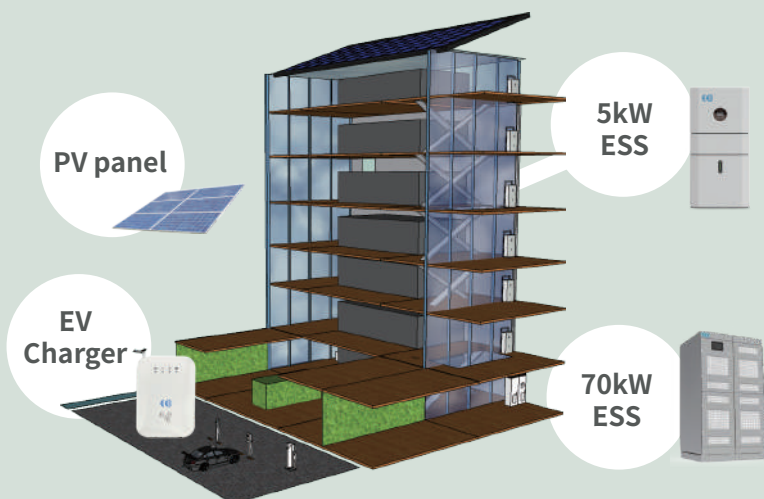
ESS in Building

New energy storage equipment

Green Building

Energy Community

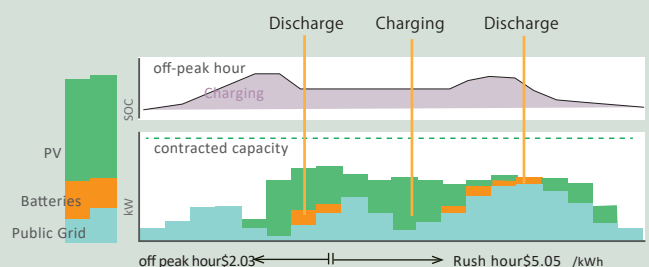
With the advancement of energy storage technology, new energy storage systems will become an option other than emergency diesel generators, including lithium-ion batteries and fuel cells. (Quoting the Taiwan the Taiwan Electrical and Electronic Manufacturers' Association's announcement of 'standard of emergency power system ' in 2022)



Remotely EMS



Power Balance



MAX BESS	UPS 4.6kW	EDO	PV panel
400V/Inverter 70kW/ Batteries72kWh	220V/Inverter 5kW/ Batteries 5kWh-20 kWh		DC
in Built EMS ,Monitoring Data	UPS	APP	Customized
			

MAX BESS

AC Output Parameters

Rated power	70kVA
Rated voltage	400 Vac $\pm$ 10%
Rated frequency	50/60Hz($\pm$ 5Hz)
Rated output current	101A
Overload	150%(10 sec every 10 min)
AC connection	3ph+N+PE Transformerless
Power factor	(0 leading~0 lagging, depending on DC voltage input)
THDi	<3%
Disconnection device	AC Switch disconnector + fuses
Overvoltage protection	Surge suppressors

Battery Pack Specification

Battery rated voltage	716.8V
Rated current charge/discharge	100A
Battery capacity	71.68 kWh
Battery type	LFP(LifePO4)
Depth of discharge(DoD)	100%
Cycles	3,000 cycles, 100%DOD,25°C
Modules in series	14
Safety(cell)	IEC 62619, UL 1973, UN 38.3

General system specification

Dimensions(LxHxD)mm	113*1920*800
Weight(kg)	1240 kg
Operating temperature range °C	0°C~40°C
Storage temperature range °C	-10°C~+60°C
Humidity	0~95% (non-condensing)
IP rating	IP21
Cooling	Forces air
Noise level [dB]	<85
Communication	Modbus TCP/IP-4G and Wifi (optional)
Altitude	$\leq$ 2000m

Standards and Certifications

EMC	EN61000-6-2、EN61000-6-4
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AC power grid

Rated voltage :	230Vac
Frequency Range :	50 / 60Hz($\pm$ 5Hz)
Maximum output power :	4999W
Power Factor :	(0.9leading - 0.9lagging)
Solar arrays	
Input maximum power :	6500W
Maximum input voltage :	580V

Battery specification 5.1 BU

Battery capacity:	5.12/10.2/15.3/20.4kWh
Operating voltage range:	44.8~57.6V
Degree of protection :	IP65
Rated voltage :	51.2V
Voltage range:	40~60V
Maximum output current:	80A
Maximum charging current :	50A
Operating Temperature Range :	0 ~+50 (charge)/ -10 ~+50 (discharge)
Size:	540*1080*240mm

UPS

UPS system, discharging while outage, Charging at off-peak hour, 2 sets of charging and discharging time.

Solar Energy

Install solar energy at parking sheds or roofs, energy storage systems to optimize green electricity to stabilize quality, or participate in electricity market reward transactions