

EM-Cube 50 | 60 POWER STATION



The SUPER EMPOWER® EM-Cube 50 | 60 Combining an all-in-one design with high power density, EM-Cube60 system requires only minimal space. It offers flexibility in transportation, ease in on-site installation, and can be freely combined for expanded capacity and power output.



“WE EMPOWER WATT MATTERS”

OUR
BRANDS



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EM-Cube 50 I 60 Power Station

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

ABOUT OUR POWER STATION

- **Safety & Reliability:** EM-Cube 50 I 60 system ensures safety with comprehensive battery monitoring, multi-level fire prevention, and a top venting design for explosion risk mitigation. Additionally, it features proactive cell-level AI management to prevent thermal runaway.
- **Efficient & Flexible:** Designed for efficiency, our system boasts a modular structure for reduced failure and high uptime, enhanced by high-efficiency Air-cooling. It is adaptable to various extreme environments, maximizing battery life and discharge capacity.

OPTIONAL TYPE

The ultimate commercial and industrial energy storage solution with optimized temperature control, high-rate energy cycling, comprehensive fire and gas safety detection, and advanced integrated power management technologies.

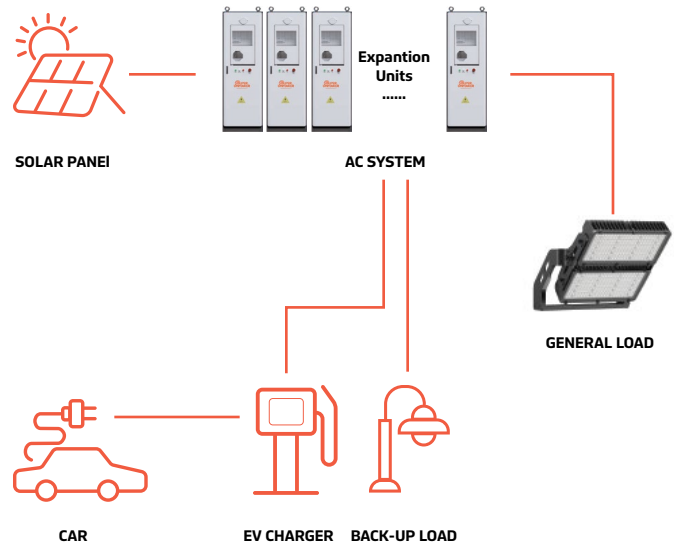


Battery-only
(Optional)



With EV Charger
(Optional)

SYSTEM LAYOUT





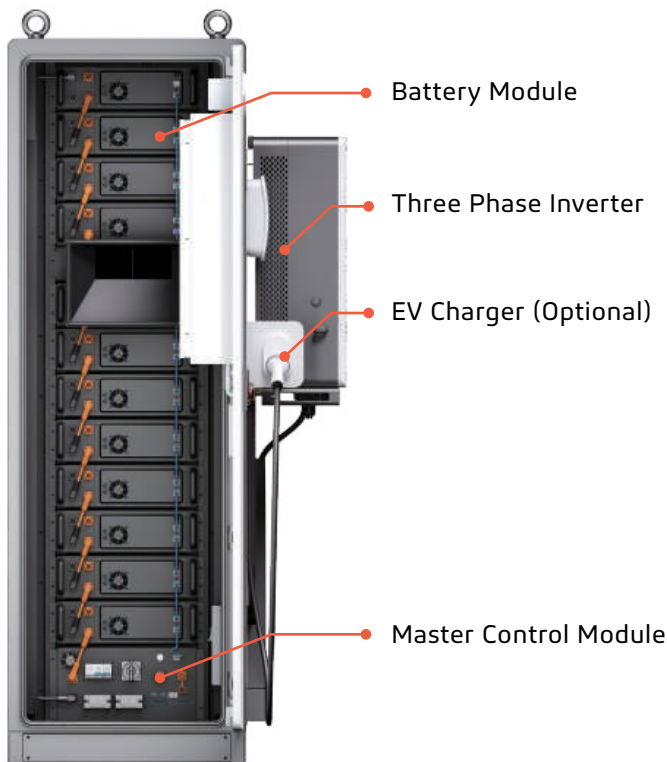
EM-Cube 50 I 60

Power Station

FEATURES

- S** Highly integrated
- S** Safety & Reliability
- S** Efficient & Flexible

SYSTEM DEMONSTRATION



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APPLICATIONS

SPORT FIELD ENERGY SUPPLY



SUPERMARKET & KIOSK



OFFICE SPACE



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SPECIFICATIONS

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BATTERY ENERGY STORAGE	LV OPTION	HV OPTION
CELL CHEMISTRY	LiFePO ₄	LiFePO ₄
MODULE ENERGY (KWH)	5.12	5.12
MODULE NOMINAL VOLTAGE (V)	51.2	51.2
MODULE CAPACITY (AH)	100	100
BATTERY MODULE COMBINATION	6S2P	12S1P
SYSTEM NOMINAL VOLTAGE (V)	307.2	614.4
SYSTEM OPERATING VOLTAGE (V)	281.25–340.8	562.5–681.6
SYSTEM ENERGY (KWH)	50KWH 60KWH	50KWH 60KWH
CHARGE/DISCHARGE CURRENT (A)	100	100

PV INPUT	LV OPTION	HV OPTION
MAX. POWER(KW)	45	90
MAX. VOLTAGE(V)	550	1100
START-UP VOLTAGE(V)	80	200
RATED VOLTAGE(V)	360	730
MPPT VOLTAGE RANGE(V)	80–520	200-1000
NUMBER OF MPP TRACKERS	4	4
MAX. PV INPUT CURRENT(A)	40/40/40/40	40/40/40/40



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SPECIFICATIONS

CHARGING SYSTEM (OPTIONAL)

CHARGING TYPE	Charging Mode 3 Case c, level 2
OUTLET OPTIONS	AC Type 1 (SAEJ1772)
INPUT/OUTPUT CURRENT RATING(A)	32 / 48 / 80
INPUT/OUTPUT POWER RATING(KW)	7.7 / 11.5 / 19.2@240VAC
INPUT/OUTPUT VOLTAGE(VAC)	208-240
INPUT FREQUENCY(HZ)	50/60
CABLE LENGTH	16 feet, Optional: 25 feet
DISTRIBUTION SYSTEMS	Single phase, split-phase
CONNECTOR TYPE	L1 + L2 + PE
CERTIFICATIONS	UL2594, UL2231-1, UL2231-2, UL1998 UL991FCC Part 15 ClasS B, ENERGY STAR

AC OUTPUT (EPS)	LV OPTION	HV OPTION
MAX. OUTPUT POWER(KW)	33	66
PEAK OUTPUT POWER, TIME(KVA,S)	45, 7s	120, 7s
RATED VOLTAGE(V)	120/208	277/480
THDV(@RATED POWER)	<3%	<3%
SWITCH TIME(MS)	<10	<10

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SPECIFICATIONS

AC OUTPUT(ON-GRID)

RATED OUTPUT POWER(KW)

MAX. OUTPUT POWER(KVA)

MAX. OUTPUT CURRENT(A)

RATED VOLTAGE(V)

RATED FREQUENCY(HZ)

THDI(@RATED POWER)

POWER FACTOR

CATALOG	PROJECT	COMMENTS

LV OPTION

30

33

91.6

120/208

50/60

< 3%

0.8 leading-0.8 lagging

HV OPTION

60

66

79.4

277/480

50/60

< 3%

GENERAL PARAMETERS

DIMENSIONS (W*D*H)

29.5 X 37.4 X 89.7 in

WEIGHT APPROXIMATE

1050kg / 2314.8lb

WORKING TEMPERATURE

-20°C-55°C / -4°F-131°F

COMMUNICATION INTERFACE

CAN, RS485, Wi-Fi, LTE

HUMIDITY

5%-85%RH

ALTITUDE

≤2000m

IP RATING

IP55

STORAGE TEMPERATURE

-20°C-35°C / -4°F-95°F

RECOMMEND DEPTH OF DISCHARGE

90%

CYCLE LIFE

>8000 cycles

WARRANTY

3 years free, paid from the 4th to the 15th year

CERTIFICATION

UL1973, UL9540A, UN38.3, IEC62619, UL 1741-2021 (incl UL1741SB), CSA C22.2, No 1071-16 IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL1699B

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