

EM-Cube 48 POWER STATION



The **SUPER EMPOWER® EM-Cube 48** Combining an all-in-one design with high power density, EM-Cube48 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 48 Power Station

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

ABOUT OUR POWER STATION

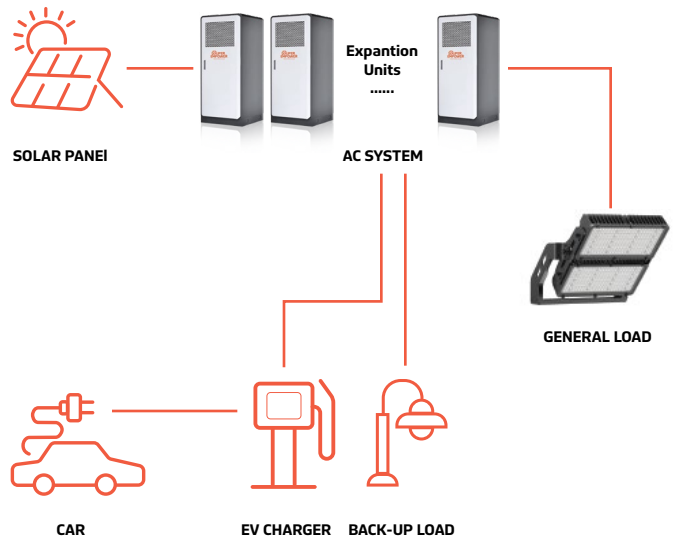
- **Safety & Reliability:** EM-Cube 48 system ensures safety with comprehensive battery monitoring, multi-level fire prevention, and a top venting design for explosion risk mitigation. Additionally, it features proactive cell-level AI management to prevent thermal runaway.
- **Efficient & Flexible:** 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

With EV Charger (Optional)



SYSTEM LAYOUT





EM-Cube 48 Power Station

FEATURES

- Highly integrated
- Safety & Reliability
- Efficient & Flexible



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APPLICATIONS

SPORT FIELD ENERGY SUPPLY



SUPERMARKET & KIOSK



OFFICE SPACE





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Power Station

SPECIFICATIONS

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BATTERY ENERGY STORAGE

CELL TYPE	LFP 3.2V/100AH
MODULE COMBINATION	1P30S
SYSTEM COMBINATION	5 modules in series
CAPACITY (KWH)	48
NOMINAL VOLTAGE (V)	480
VOLTAGE RANGE (VDC)	405~547.5
DISCHARGE DEPTH	90% DoD

AC OUTPUT

RATED OUTPUT POWER(KW)	30
MAX. APPARENT POWER(KVA)	33
MAXI. ACTIVE POWER(KW)	33
RATED GRID VOLTAGE(VAC)	3L+PE,480(±15%)
RATED FREQUENCY(HZ)	60(±5)

PV INPUT

TOPOLOGY	Isolation
INPUT VOLTAGE(V)	300-825
STARTING VOLTAGE(V)	375
MAX INPUT CURRENT(A)	50
RATED POWER (KW)	30
NUMBER OF MPPT	1
NO. OF PV STRINGS PER MPP TRACKERS	4



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SYSTEM CHARACTERISTIC

COMMUNICATION INTERFACE	CAN, RS485, Wi-Fi, LTE
WARRANTY	3 years free, paid from the 4th to the 15th year
CERTIFICATIONS	IEC62619, UN38.3, IEC, EN 62477-1 IEC EN, 61000-6-2, IEC, EN 61000-6-4, UL 9540A IEEE1547, UL1741SA, RULE 21

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



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GENERAL PARAMETERS

DIMENSIONS (W*D*H)	31.5 X 31 X 71 in
TOTAL WEIGHT	720kg / 1587lb
OPERATION ALTITUDE	2000m / 6561ft
IP RATING	IP54
OPERATING TEMPERATURE	0°C to 55°C / 32°F to 131°F (Optional: -20°C to 55°C / -4°F to 131°F)
OPERATING HUMIDITY (RH)	0 to 95%
STORAGE CONDITIONS	-20°C to 30°C / -4°F to 86°F Up to 95% RH, non-condensing State of Energy (SoE): 50% initial



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