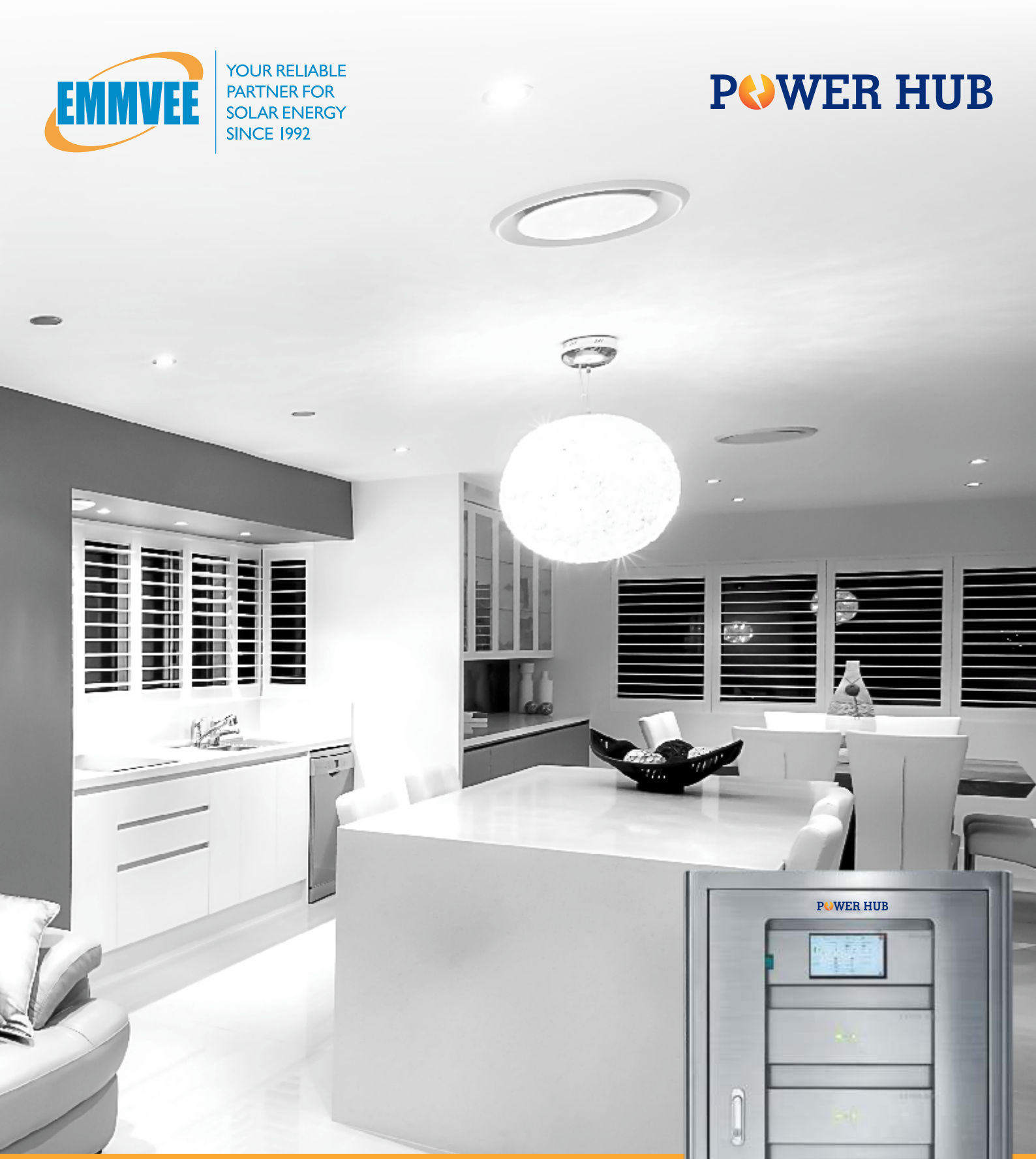
EMMVEE

YOUR RELIABLE PARTNER FOR SOLAR ENERGY SINCE 1992

POWER HUB



BACKING UP ENERGY, LIKE NEVER BEFORE!

OPTIMIZE & MONITOR ENERGY

Emmvee is an intelligent solar solutions producer born from an idea to implement green energy to better use. Amidst our industrial product range, Photovoltaics and Solar Water Heating Systems are our strongest since inception in

As an initiative towards green energy & its conservation, Emmvee introduces its newest member - The PowerHub.

Reimagine convenient utilization of green energy and add a statement to living. The PowerHub is essentially an intelligent electrical energy storage system consisting of lithium-ion batteries. It is an aesthetic necessity for every home that desires energy independence for a long and comfortable lifestyle. It is a modular and expandable solution promising an alleviated user experience in terms of green energy consumption. The PowerHub is a suitable alternative solution to your regular conventional power backup storage system. It is a child-friendly and a very secure product to use at home as it runs on a very low voltage output.

Apart from storing energy, its Battery Management System (BMS), gives you a clear overview of all the processes in the individual memory modules that you can easily expand yourself. The Energy Management System (EMS) gives the consumer a consolidated overview of the energy they consume and helps in the conservation of more energy in a convenient way. The elegant PowerHub system is a multi-tasker. The cutting-edge technology enables you to control energy usage, monitor and optimise real-time energy consumption. The monitoring system updates you with the full status of the system from a mobile or a web-enabled device regardless of where you are. This add-on feature of the Powerhub makes it a highly reliable power backup solution for all.

FEATURES

Designed in Germany to provide exemplary performance. Housed in a rugged and stylish stainless steel outer cabinet for both indoor and outdoor application.

The glass door allows full visibility for you to operate the system.

You can start with a smaller system and add further units if your future energy storage needs change.

The intelligent controller protects the life and performance of the system.

The Battery Management System is the brain of the PowerHub and communicates the full status to any tablet or smartphone device wherever you are.

A completely safe foolproof system that is capable of operating on low voltage as well

APPLICATION

- Houses
- Commercial spaces
- Industries
- ATMs, etc.
- Hospitals

SYSTEM CHARACTERISTICS

MAX. ENERGY CONTENT	10 KWH
MAX. CAPACITY	200 AH
MAX. CHARGING CURRENT	200 A (1 C @ 25 °C)
MAX. DISCHARGE CURRENT	200 A (1 C @ 25 °C)
MIN. CHARGING TIME	1 H
END-OF-CHARGE VOLTAGE	57.6 VDC
END-OF-DISCHARGE VOLTAGE	43.2 VDC
MAX. NUMBER OF BATTERY MODULES	4
IP RATING	IP 55
COMMUNICATIONS PORTS	CAN, ETHERNET
BMS	YES
PROTECTION CLASS	3
POWER FAILURE PROTECTION	YES
MATERIAL	STAINLESS STEEL
DIMENSIONS (LENGTH X WIDTH X HEIGHT)	(690 X 550 X 1,100) MM
WEIGHT (CABINET)	80 KG
MAX. WEIGHT	208 KG

BATTERY MODULE

CELL CHEMISTRY	LITHIUM IRON PHOSPHATE (LIFEPO4)
NOMINAL VOLTAGE	51.2 VDC
ENERGY CONTENT	2.5 KWH
NOMINAL CAPACITY	50 AH
RECOMMENDED CHARGING CURRENT	10 A (0,2 C AT 25 °C)
MAX. CHARGING CURRENT	50 A (1 C AT 25 °C)
END-OF-CHARGE VOLTAGE (CELL)	3.60 VDC
NOMINAL VOLTAGE (CELL)	3.20 VDC
END-OF-DISCHARGE VOLTAGE (CELL)	2,70 VDC
DIMENSIONS (LENGTH X WIDTH X HEIGHT)	435 X 502 X 117 MM
WEIGHT	28 KG

AMBIENT CONDITIONS

OPERATING TEMPERATURE	-10 TO +55°C
STORAGE TEMPERATURE	-20 TO +60°C
RELATIVE HUMIDITY	0 TO 95%
WARRANTY	6,000 CYCLES (80% DEPTH OF DISCHARGE - DOD) OR 10 YEARS*
CONFORMITY	CE, ROHS, IEC 62619:2017/AS IEC 62619:2017, YDB 032-2009, UN38.3

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(An ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Company)