

* 4,9 kWh as equivalent energy yield with a nominal capacity of 4,3kWh (DoD = 80%)



**4,9kWh* / 5kW -
48V
RESS -
Residential
Energy Storage
System
(Lithium-ion)**



Consisting of 560 high performance cylindrical lithium ion cells providing 4.9 kWh as equivalent energy yield with a nominal capacity of 4,3kWh (DoD = 80%) and 5kW of continuous power at a voltage of 48V, MAUI has a BMS (Battery Management System) developed in-house by Tawaki R&D for the complete control (voltage, current and temperature) of its two internal battery packs connected in series. A dedicated software application for managing all system functions completes the solution.

MAUI can satisfy every type of requirement for residential photovoltaic systems, maximising its utilisation with significant benefits relating to its high performance in terms of safety and storage.

Thanks to its compact dimensions, MAUI can be installed either on a wall or/ on the ground, easily adapting it to any requirements.

TECHNICAL SPECIFICATIONS		PARAMETERS
NOMINAL VOLTAGE	Vdc	50,4
NOMINAL CAPACITY	Ah	86
NOMINAL ENERGY	kWh	4,334
EQUIVALENT ENERGY YIELD	kWh	4,9
WEIGHT	Kg	48
DIMENSIONS	L x W x H (mm)	575 x 235 x 575
MAX DISCHARGE CURRENT	A	200
MAX DISCHARGE RATE	C (RT)	2C (0°≤T≤45°C); 0.5C (-20°≤T<0°C)
MAX CHARGE RATE	C (RT)	0.33C (T≥0°C); 0.2C (-20°≤T<0°C)
PEAK CHARGE POWER	kW	4
CONTINUOUS DISCHARGE POWER	kW	5
COMMUNICATION	-	2 x CAN2.0b; RS-485; TTL Logic Discrete Signals
CHARGING TEMPERATURE	°C	-20°≤T≤45°C
DISCHARGING TEMPERATURE	°C	-20°≤T≤60°C
HUMIDITY	%	Max. 90 (non-condensing)
ALTITUDE	mt.	Max 2.000 (a.s.l.)
CERTIFICATIONS	-	TUV, CEI-021, CE, UN 38.3 compliant
LIFE CYCLE	Cycles	10.000 cycles (with min. 70% of nominal energy available)
WARRANTY	Year	10 Years*
DEPT OF DISCHARGE (DoD)	%	90%
MAX NOMINAL CAPACITY IN PARALLEL	kWh	21,67 (Max 5 Units in Parallel / No additional communication devices)

* The performance warranty is calculated according to 10.000 cycles @ 0.5C /-0.5C (Charge/Discharge), Humidity = 40%, DoD = 80%.

Solar Inverter (DC), Standard Inverter (AC) or/DC/DC Converter compatible with TAWAKI: Zucchetti Centro Sistemi (Azzurro series), etc.
Please check the complete list of all type of Products/Inverters compatible with TAWAKI's Battery for ESS (Energy Storage System) applications at :
<http://www.tawaki-battery.com>

TAWAKI is a registered trademark of TAWAKI S.r.l.
Zucchetti Centro Sistemi (ZCS) and other Brands different from TAWAKI, are registered trademark of each respective Brand owner.



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[tawaki-battery.com](http://www.tawaki-battery.com)

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