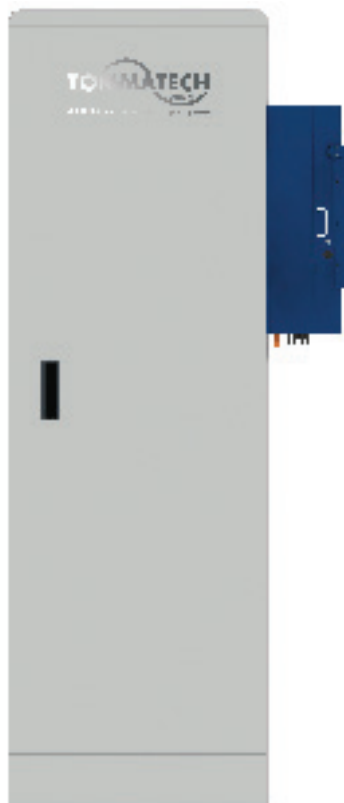


## ESS-TT-KB-30KWH-M12K



## CABINET STORAGE SYSTEM WITH INVERTER ESS-TT-KB-30KWH-M12K



### High Performance

Great performance based on the latest generation of LiFePO4 technology



### Smart Management System

The advanced built-in BMS technology ensures a safe operation



### Long Lifespan

Long lifespan up to 5000 cycles



### Temperature Resistant

Temperature sensor and heat resistant casing



### IP65 Protection Class

IP65 compatible metal cabinet and connector components



### Durable Metal Case

Aesthetic, compact and durable metal cabinet design



### Easy Installation and Easy to Use

Ease of use with functional key combination

## Technical Specifications

Model	ESS-TT-KB-30KWH-M12K
<b>System Specifications</b>	
Rated Output Power/UPS Power [W]	12000
AC Output Frequency and Voltage	50 / 60Hz; 3L/N/PE 220 / 380, 230 / 400Vac
Network Connection Type	Three Phase
Energy Capacity [kWh]	30.72
Cabinet Dimensions (WxHxD) [mm]	739x1043x2504 (Excluding Inverter)
Weight [kg]	333 (Battery) + 23 (Inverter)
AC Output Rated Current [A]	75
Battery Operating Voltage [V]	40 ~ 60
Max. charge/discharge efficiency	91%
Battery Chemistry	LiFePO <sub>4</sub>
Protection Class	IP55
Warranty	5 Years
<b>Inverter Technical Specifications</b>	
Maximum DC Input Power [kW]	15.6
Maximum DC Input Voltage [V]	800
Startup DC Input Voltage [V]	160
MPPT Operating Range [V]	200 - 650
Maximum DC Input Current [A]	26 / 13
Maximum Short Circuit Current [A]	34 / 17
MPPT Number	2
Number of Inputs per MPPT	2 / 1
Output Power Factor	0.8 Leading 0.8 Lagging
Total Harmonic Current Distortion	< 3%
DC Injection Current [mA]	< 0.5%
Display	LCD1602
Operating Temperature	-25 - +65°C, >45°C Derating
Relative Humidity	0 ~ 100%
Dimension (WxHxD) [mm]	362x577x215 (Excluding Connectors and Brackets)
Interface	RS485 / RS232 / Wifi / LAN
Network Connection Standard	NBR 16149, NBR 16150, EN 50549, RD 140
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
<b>Battery Technical Specifications</b>	
Nominal Voltage [V]	51.2
Battery Capacity [kWh]	5.12
Communication	CAN / RS485
Dimensions (WxDxH) [mm]	494x721x180
Weight [kg]	55.5 ± 0.5
Charging Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Max. 95%
Protection Class	IP65

\* TommaTech GmbH reserves the right to change the specification of product without prior notice.  
\* The charge, discharge, capacity and cycle values stated above are valid at 25 °C and non-condensing environment

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