



STORAGE SYSTEM - CABINET
ESS-TT-KB-60KWH-M50K
60KWH STORAGE + 50KW INVERTER

Simple. Reliable. Efficient



Battery Temperature Management



Inbuilt Protection



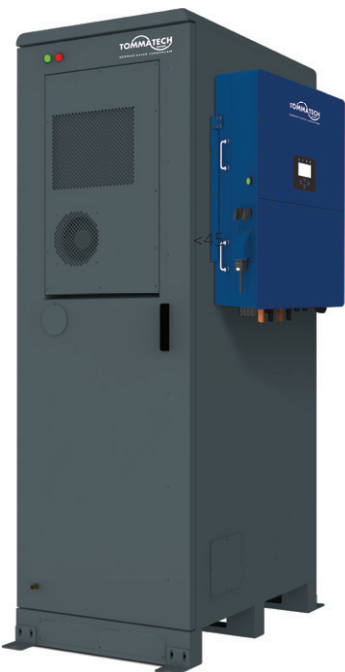
All-In-One Solution



Including EMS and BMS



LiFePO₄ Technology



ESS-TT-KB-60KWH-M50K

With the ESS-TT-KB-60KWH-M50K Storage Cabinet, TommaTech® takes the next step to providing reliable Energy Storage Solutions for everybody. The plug & play outdoor cabinet, which combines a 50kW hybrid inverter with a 60kWh LiFePO₄ battery-bank comes additionally equipped with an EMS and a BMS as well as several inbuilt protection and fire detection systems. For larger projects, the cabinets are extendable up to 500kW inverter power and 3,600kWh storage capacity.



ESS-TT-KB-60KWH-M50K

DC INPUT

Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+36+36+36
Rated PV Input Voltage (Vdc)	600
Start Up DC Voltage (Vdc)	180
MPPT Voltage Range (Vdc)	150-850
Max. PV Short-circuit Current (A)	55+55+55+55
Number of MPPT	4
DC injection current (mA)	<0.5%In

AC INPUT & OUTPUT

AC Output Frequency and Voltage	50 / 60Hz; 3L / N / PE 220 / 380, 230 / 400Vac
Grid Type	Three phase
AC Output Rated Current (A)	75.8
Power Factor	0.8 leading to 0.8 lagging
THD [%]	<3

BATTERY DATA

Energy Configuration (kWh)	61.4
Battery Operating Voltage (V)	500 - 700
Max. Charging/Discharging Efficiency [%]	91%
Battery Chemistry	LiFePO4
Battery Module Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	512
BMS Communication	CAN
Battery Module Dimension(W*D*H mm)	440x570x133

EPS OUTPUT (WITH BATTERY)

Nominal Output Power/UPS Power (W)	50000
Peak Power (off grid)	1.5 time of rated power, 10s

SYSTEM DATA

Dimension (W x D x H,mm)	735x1050x2250 (no contain inverter)
Weight Appr. (kg)	950 (battery) +80 (inverter)
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted
Warranty [Year]	10
Display	LCD
Operating Temperature Range (C°)	-40 - 60 (>45 derating)
Relative Humidity [%]	15 - 85 (no condensing)
Dimension (W x D x H,mm)	527x294x894
Inverter Communication	CAN, RS485, WIFI, ETH
Max. Efficiency [%]	97.6
MPPT Efficiency [%]	99.9
Battery Module Weight (kg)	44
Operating Temperature Range [C°]	Charge: 0~55°C / Discharge: -20°C~55°C
Cycle Life	≥6000 (@25°C ± 2°C, 0.5C / 0.5C,70 % EOL)

STANDARD

Safety EMC / Standard	IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-6-1, IEC / EN 61000-6-2, IEC / EN 61000-6-3, IEC / EN 61000-6-4
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS47772, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149 / NBR16150
Battery Module Certification	CE, IEC62619, IEC62040, UN38.3