

Simple. Reliable. Efficient

PSS - CABINET
PSS-TT-KB-24KWH-20KW
PSS-TT-KB-12KWH-10KW



High Efficiency




Remote Monitoring



IP65 Rated



Hybrid Solution



3- Phase Unbalance Output



6000 Charger/Discharger Rate



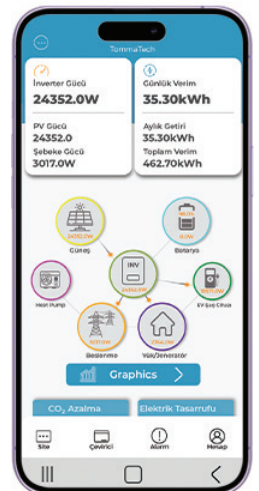
LiFePO₄ Technology

PSS 24kWh 20kW / PSS 12kWh 10kW

Maximize your solar benefits with our durable and scalable battery solutions.

The safest LiFePO₄ technology ensures long term and high-performing operation with more than 6000 life cycles at 90% DoD with marginal self-consumption.

TommaTech® Trio-Hybrid three phase inverters are equipped with dual protection for the BMS and can be controlled remotely through multiple communication options.





PSS 24kWh 20kw

PSS 12kWh 10kw

DC INPUT

Max. PV Input Power (W)	30000 A:10000 B:5000 A:8000 B:5000	13000 A:8000 B:5000
Max. PV Input Voltage(V)	1000	1000
Rated PV Input Voltage (Vdc)	640	720
MPPT Voltage Range (Vdc)	180-950	180-950
Max. PV Input Current (A)	26/16 26/16	24/12
Max. PV Short-circuit Current (A)	30/20 30/20	28/14
Number of MPPT	2 2	2
NO of String	2/1 2/1	2/1

AC INPUT & OUTPUT

Max. apparent AC Input power [VA]	20000 [10000 10000]	10000
Max. apparent AC Output power [VA]	22000 [11000 11000]	11000
AC Output Frequency and Voltage	400V/50Hz	400V/50Hz
AC Output Max Current [A]	32.2[16.1 16.1]	15.9

BATTERY DATA

Battery	30Ah Lithium(LFP)	30Ah Lithium(LFP)
Battery Module Nominal Voltage[V]	102.4	102.4
Nominal Voltage[V]	409.6 409,6	409.6
No of Battery Module	8 [4 4]	4
Energy Configuration [kWh]	24 [12 12]	12
Usable Energy [kWh]	22 [11 11]	11
Battery Operating Voltage [V]	360-464	360-464
Rated Capacity [Ah]	30	30
Cycle Life [%90 DOD]	6000	6000

EPS

EPS Max. continuous apparent power [VA]	20000 [10000 10000]	10000
EPS rated voltage [V],Frequency [Hz]	400/230VAC;380/220VAC; 50/60	400/230VAC;380/220VAC; 50/60
EPS Max.continuous current [A]	29 [14.5 14.5]	14.5
EPS peak apparent power [VA] Duration [60s]	<30000 [<15000 <15000]	<15000
Changeover time [ms]	<1.5	<1.5

EFFICIENCY

MPPT efficiency [%]	99.9	99.9
Euro. efficiency [%]	97.7	97.0
Max. efficiency [%]	98	97.8
Battery charge/discharge efficiency [%]	98.5/97.5	97.5/96.5
Battery Faradic Charge Efficiency[%]	99	99
Roundtrip Efficiency [%]	95	95

SYSTEM DATA

Parallel Operation	up to 5 unit	up to 10 unit
IP Rating[Inverter]	IP65	IP65
IP Rating[battery]	IP65	IP65
IP Rating[cabinet]	IP55	IP55
Warranty [Inverter]	5	5
Warranty [Battery]	10	10
Operating Temperature Range (C°)	-20-+55	-20-+55
Max. operation altitude [m]	<2000	<2000
Relative Humidity [%]	0 -100	0 -100
Communication interfaces	Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi	Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi
LCD display	Backlight 20*4 character	Backlight 20*4 character
Cooling concept	Natural	Natural

*Note, the system consists of 2 parallel connected 10kw hybrid inverters and batteries.

*The system does not support half-wave loads and devices drawing inrush current.

*If capacity increase will be performed with parallelization process, it is mandatory to use eps parallel box

*The images in the document are reference images, the product panel may look different from the image.

Ver.2411.24