



**TRIPLE**  
POWER



# Triple Power & X1-Retro Fit

**Specification sheets**  
**June 2021**

# T-BAT SYS–HV configuration list

## T-BAT H 5.8 (T58)

Nominal Voltage [V DC]	115.2
Operating Voltage [V DC]	100-131
Battery Type	Li-ion (LFP)
Nominal Capacity [kWh]	5.8
Faradic Charge Efficiency [%]	99
Battery Roundtrip Efficiency [%]	95
Standard Power [kW]	2.9
Max Power [kW]	4.0
Recommend Charge/Discharge Current [A]	25
Maxcharge/Discharge Current [A]	35
Cycle Life [90% DoD]	6000 Cycles
Warranty [Years]	10
Available Operating Temperature Range [°C]	0 to 55
Full-Load Operating Temperature Range [°C]	5 to 48
Humidity [%]	4 to 100 (Non-condensing)
Altitude [m]	Below 2000
Protection	IP55
System to Inverter	CAN2.0
Battery to Battery/BMS	RS485
Data Collection Port /FW UPDATE	CAN2.0
Master Control Working Mode Indicator	1 LED
Master Control Capacity Indicator	4LED (25%, 50%, 75%, 100%)
Battery Module LED	2 LED
Reset	Button
Switch On/Off	Button*1 + Breaker*1
Safety	CE, RCM, TUV (IEC62619) ULI973,ROHS,REACH
UN Number	UN3840
Hazardous Materials Classification	Class 9
Transport Testing Requirement	UN38.3
Dimensions (L x W x H) [mm] with BMS (T-BAT H 5.8)	474 x 193 x 708
Dimensions (L x W x H) [mm] without BMS (HV11550)	474 x 193 x 647
Weight [kg] with BMS (T-BAT H 5.8)	72.2
Weight [kg] without BMS (HV11550)	68.5

# X1-Retro Fit (Single Phase)

## X1-FIT-5.0kW Version: I

### OUTPUT (AC)

Nominal AC Power [VA]	4999
Max. Apparent AC Power [VA]	4999
Nominal Grid Voltage (AC Voltage Range) [V]	220/230/240 (180-270)
Nominal Grid Frequency/Range [Hz]	50/60
Nominal AC Current [A]	21.7
Max. AC Current [A]	21.7
Displacement Power Factor	0.8 leading to 0.8 lagging
THDi, Rated Power [%]	<2

### INPUT (AC)

Max. Apparent AC Power [VA]	9999
Max. AC Current [A]	47.7
Nominal Grid Voltage (AC Voltage Range) [V]	220/230/240 (180-270)
Nominal Grid Frequency/Range [Hz]	50/60

### BATTERY

Battery Voltage Range [V]	85-400
Recommended Battery Voltage [V]	300
Max. Charge/Discharge Current [A]	35 (Adjustable)
Rated Charge/Discharge Current [A]	25
Communication Interfaces	CAN/RS485
Reverse Connect Protection	YES
Maximum Short-Circuit Current	1440A

### EPS OUTPUT (WITH BATTERY)

EPS MAX. Continuous Apparent Power [VA]	6000
EPS Rated Voltage [V], Frequency [Hz]	230, 50/60
EPS MAX. Continuous Current [A]	26
EPS Peak Apparent Power [VA]	8000
Changeover Time [ms]	<500
THDv Linear Load	<2
Changeover Device	Internal

# X1-Retro Fit (Single Phase)

## X1-FIT-5.0kW Version: I

### EFFICIENCY

Max. Battery Charge Efficiency (GRID to BAT)	95.60
Max. Battery Discharge Efficiency (BAT to AC)	97.00
Max. Efficiency	97.00

### POWER CONSUMPTION

Internal Consumption (Night) [W]	<3
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### SAFETY & PROTECTION

Over/Under Voltage Protection	YES
Monitoring Ground Fault Protection	YES
Grid Protection	YES

### STANDARD

Safety	IEC62109-1 / -2 / IEC62040 /
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3
Certification	VDE0126-1-1 A1: 2012/VDE-AR-N4105/G98/G99/G100/AS4777/EN50438/CE10-21/VDE2510

### ENVIRONMENT LIMIT

Degree of Protection (according to IEC60529)	IP65
Operating Temperature Range [°C]	-20..... +60 (Derating at +45)
Max. Operation Altitude [m]	2000
Humidity [%]	4-100 (Non-condensing)
Storage Temperature	-20..... +60
Typical Noise Emission [dB]	<40

### DIMENSIONS AND WEIGHT

Dimensions (W x H x D) [mm]	476 x 464 x 180
Weight [kg]	23
Cooling Concept	Natural
Topology	Transformless
Communication Interfaces	Ethernet/Meter/LAN/DRM/USB-upgrade
LCD Display	Backlight 20*4 Character
Standard Warranty [year]	10