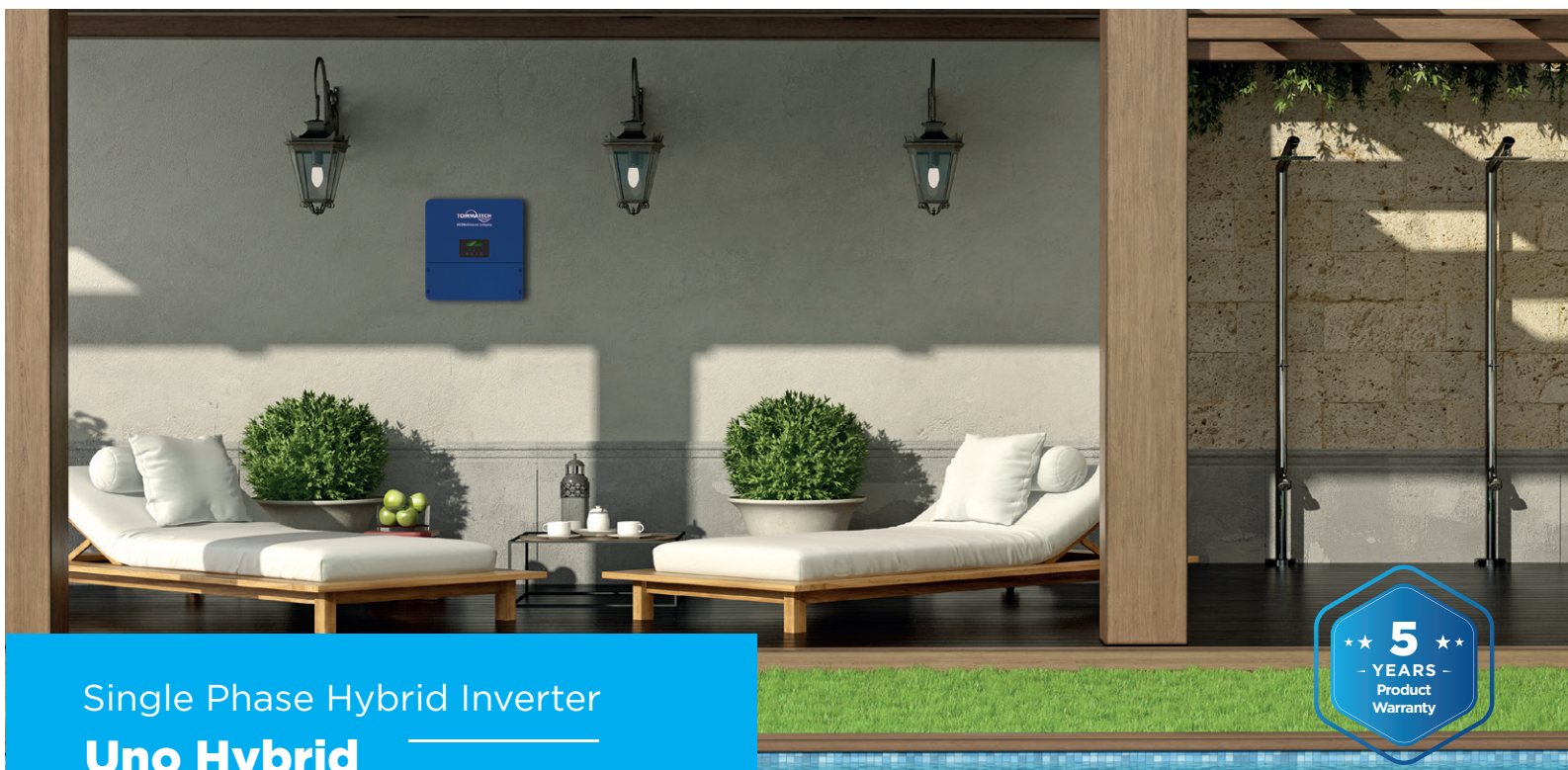


UNO HYBRID SINGLE PHASE INVERTER



Single Phase Hybrid Inverter
Uno Hybrid
3.0/ 3.7/ 4.6/ 5.0

Simple. Reliable. Efficient.



Wide Voltage Range



High Efficiency



Remote Monitoring



IP65 Rated



Hybrid Solution

3kW

3.7kW

4.6kW

Uno-Hybrid-3.0/ Uno-Hybrid-3.7/ Uno-Hybrid-4.6/ Uno-Hybrid-5.0



TommaTech®'s Uno-Hybrid single phase inverters with a maximum efficiency of 97.8%, advanced PV array power and maximum PV string voltage of 600V are compatible with the leading lithium-ion battery solutions available on the market today. It offers plug and play installation and optimizes self-consumption through export control and 6000W charge/discharge rate.



Uno-Hy-3.0 Uno-Hy-3.7 Uno-Hy-4.6 Uno-Hy-5.0

DC INPUT

Max. PV array power [Wp]	4500	5550	6900	7500
Max. DC voltage [V]			600	
Nominal DC operating voltage [V]			360	
Max. input current (input A/input B) [A]			12/12	
Max. short circuit current (input A/input B) [A]			14/14	
MPPT voltage range [V]			125-550	
Start operating voltage [V]			150	
No. of MPPTs			2	
Strings per MPPT			1/1	

AC INPUT

Max. apparent AC power [VA]	3000	3680	4600	4999
Max. AC current [A]	14.4	16.0	21.0	21.7
Nominal grid voltage [V]		220/230/240(180-270)		
Nominal grid Frequency [Hz]		50/60		

AC OUTPUT

Nominal AC power [VA]	3000	3680	4600	4999
Max. apparent AC power [VA]	3300	4048	5060	5500
Nominal grid voltage [V]		220/230/240(180-270)		
Nominal grid frequency [Hz]		50/60		
Nominal AC current [A]	13	16	20	21.7
Max. AC current [A]	14.3	17.6	21	239
Displacement power factor		0.8 Leading ~ 0.8 Lacking		
THDi, rated power [%]		<2		

DC OUTPUT (BATTERY)

Battery voltage range [V]		85-400		
Recommended battery voltage [V]		300		
Max. continuous charge/discharge current [A]		20		
Communication interfaces		CAN/RS485		
Reverse connect protection		Yes		

EPS OUTPUT (WITH BATTERY)

EPS Max. continuous apparent power [VA]	4000	4000	5000	5000
EPS rated voltage [V], Frequency [Hz]		230,50/60		
EPS Max. continuous current [A]	21.7	21.7	26.0	26.0
EPS peak apparent power [VA] Duration [s]	6000 10	6000 10	8000 10	8000 10
Changeover time [ms]		<500		
THDv, linear Load [%]		<2		

EFFICIENCY

MPPT efficiency [%]		99.9		
Euro. efficiency [%]		97.0		
Max. efficiency [%]		97.8		
Battery charge/discharge efficiency [%]		98.5 (PV-BAT) 97.0 (BAT-AC)		

POWER CONSUMPTION

Standby consumption [W]		<15 for hot standby , <3 for cold standby		
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STANDARD

Safety		IEC62109-1/-2		
EMC		EN61000-6-1/EN61000-6-2/EN61000-6-3		

ENVIRONMENT LIMIT

Degree of protection(according to IEC60529)		IP65		
Operating temperature range [°C]		-20~+60 (derating at 45)		
Max. operation altitude [m]		<2000		
Humidity [%]		0~100 (condensing)		
Storage temperature [°C]		-20~+60		
Typical noise emission [dB]		40		

DIMENSION AND WEIGHT

Dimensions (WxHxD) [mm]		476x464x180		
Weight [kg]		24		
Cooling concept		Natural		
Communication interfaces		Ethernet / Uno Smart Meter / DRM /USB / ISO Alarm / CT / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi		
LCD display		Backlight 20x4 Character		
Standard warranty [years]		5 (Extendable)		