



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

Simple. Reliable. Efficient



6000W Charger/
Discharger Rate



3 Inverter
Models



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



Our newly launched, ground breaking single phase Uno-Hybrid inverters with a maximum efficiency of 97.8%, advanced PV array power and maximum PV string voltage of 600V offer highest customization through 3 different inverter models for each capacity. TOMMATECH Uno-Hybrid inverters, which are compatible with the leading lithium-ion battery solutions available on the market today, offer plug and play installation, optimized self-consumption through export control and 6000W charge/discharge rate, making it one of the most popular energy storage solutions available.

Version: E,C,I

E: with EPS function

C: without EPS function

I: internal EPS function device

Uno - Hybrid (SINGLE PHASE)

Version: E,C,I

E: with EPS function

C: without EPS function

I: internal EPS function device

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

INPUT (DC)	C Version			E Version			I Version			
	C	E	I	C	E	I	C	E	I	
Max.PV array power [Wp]	4500			5550			6900			7500
Max.DC voltage [V]	600			600			600			600
Nominal DC operating voltage [V]	360			360			360			360
Max. input current (input A/input B) [A]	12/12			12/12			12/12			12/12
Max. short circuit current (input A/input B) [A]	14/14			14/14			14/14			14/14
MPPT voltage range[V]	125-550			125-550			125-550			125-550
Start operating voltage[V]	150			150			150			150
No. of MPP trackers	2			2			2			2
Strings per MPP tracker	1/1			1/1			1/1			1/1
INPUT AC										
Max. apparent AC power[VA]	3000	3000	7000	3680	3680	7680	4600	4600	9600	4999 4999 9999
Max. AC current[A]	14.4	14.4	30.4	16.0	16.0	33.4	21.0	21.0	41.7	21.7 21.7 42.7
Nominal grid voltage(AC voltage range)[V]	220/230/240(180-270)			220/230/240(180-270)			220/230/240(180-270)			220/230/240(180- 270)
Nominal grid Frequency/range[Hz]	50/60			50/60			50/60			50/60
OUTPUT AC										
Nominal AC power [VA]	3000			3680			4600			4999
Max. apparent AC power [VA]	3300			4048(3680 for G98)			5060			5500(4999 for AS4777/4600 for VDE4105)
Nominal grid voltage(AC voltage range) [V]	220/230/240(180-270)			220/230/240(180-270)			220/230/240(180-270)			220/230/240(180-270)
Nominal grid frequency/range [Hz]	50/60			50/60			50/60			50/60
Nominal AC current [A]	13			16			20			21.7
Max. AC current [A]	14.4			16			21			23.9(20 for VDE4105,21.7 for AS4777)
Displacement power factor	0.8 leading ... 0.8 lagging									
THDi, rated power [%]	<2									
OUTPUT DC (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			230, 50/60			230, 50/60			230, 50/60
EPS MAX.continuous current [A]	21.7			21.7			26.0			26.0
EPS peak apparent power [VA] Duration [s]	8000 10			8000 10			8000 10			8000 10
Changeover time [ms]	<20 for I version / <500 for E version									
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 (Night) [W]	<15 for hot standby, <3 for cold standby									
STANDARD										
Safety	IEC62109-1/-2									
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3									
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G99 /G98 / AS4777 / EN50549/ CEI 0-21 /VDE 2510 / and so on									
ENVIRONMENT LIMIT										
Degree of protection(according to IEC60529)	IP65									
Operating temperature range [OC]	-20~+60 (derating at+45)									
Max. operation altitude [m]	<2000									
Humidity [%]	0~100 (condensing)									
Storage temperature [OC]	-20~+60									
Typical noise emission [dB]	40									
DIMENSION AND WEIGHT										
Dimensions(WxHxD) [mm]	476*464*180									
Weight[kg]	24									
Cooling concept	Natural									
Topology	Non-isolated									
Communication interfaces	Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CT									
LCD display	Backlight 20*4 character									
Standard warranty [years]	5-10									