

Single phase Dual MPPT inverters **UPI-Plus**



**Simple.
Reliable.
Efficient**



**High
Efficiency**



**Wide Voltage
Range**



**Smart Plug
Load Control**



**Remote
Monitoring**

3kW

3.3kW

3.6kW

4.2kW

5kW

**UPI-3.0-T / UPI-3.3-T / UPI-3.6-T / UPI-4.2-T / UPI-5.0-T
UPI-5.5K-T / UPI-6K-T**

Upsolar have developed a range of single phase inverters unrivalled in the industry for their quality, reliability and efficiency. The Upsolar single phase inverters boast a wide MPPT voltage range to allow for more energy harvesting and have a maximum input voltage of 580V, with a maximum efficiency of 98%. In addition, Upsolar single phase inverters are IP66 rated, have no internal fan and come with optional 'plug & play' WIFI. The dual MPPT 'Boost' range is also compatible with the new Upsolar 'Smart Plug' which allows for device remote control.



	UP1-3.0T	UP1-3.3T	UP1-3.6T	UP1-4.2T	UP1-4.6T	UP1-5.0T	UP1-5.5K	UP1-6.0K
INPUT (DC)								
Max.PV array power [Wp]	4500	4950	5400	6300	6900	7500	8250	9000
Max.DC voltage [V]	600	600	600	600	600	600	600	600
Nominal DC operating voltage [V]	360	360	360	360	360	360	360	360
Max. input current [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14
Max. short circuit current [A]	16	16	16	16	16	16	16	16
MPPT voltage range[V]	70-580	70-580	70-580	70-580	70-580	70-580	70-580	70-580
Start operating voltage[V]	100	100	100	100	100	100	100	100
No. of MPP trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)
OUTPUT AC								
Nominal AC power [VA]	3000	3300	3680	4200	4600	5000*	5500	6000
Max. AC power [VA]	3300	3630	4080(3680 for TOR)	4620	5060	5500*	6050	6600
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280							
Nominal grid frequency/range [Hz]	50/60; ±5							
Nominal AC current [A]	13	14.3	16	18.3	20	21.7 (20 for VDE4105)	23.9	26.1
Max. AC current [A]	14.3	15.8	17.6(16 for G98)	20.1	22	23.9*	26.3	28.7
Displacement power factor	0.8 leading ~ 0.8 lagging							
THDi, rated power [%]	<2							
EFFICIENCY								
MPPT efficiency [%]	99.9							
Euro efficiency [%]	97.0							
Max. efficiency [%]	98.0							
POWER CONSUMPTION								
Standby consumption (Night) [W]	<2							
STANDARD								
Over voltage protection	YES							
Over current protection	YES							
DC isolation impedance monitoring	YES							
Ground fault current monitoring	YES							
DC injection monitoring	YES							
RCD protection	YES							
Safety	IEC62109-1/-2							
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3							
Certification	VDE4105 /G98 / G99/ AS4777 / EN50549 / CEI0-21							
ENVIRONMENT LIMIT								
Degree of protection(according to IEC60529)	IP66							
Operating temperature range [°C]	-25~+60(derating at 45)							
Max. operation altitude [m]	<3000							
Humidity [%]	0~100 (non-condensation)							
Storage temperature [°C]	-30~+70							
Typical noise emission [dB]	<25							
DIMENSION AND WEIGHT								
Dimensions(WxHxD) [mm]	430*341.5*143							
Weight[kg]	13.5	13.5	13.5	15	15	15	15	15
Cooling concept	Natural							
Topology	Non-isolated							
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/CT/Meter(optional)/RS485/DRM/USB							
LCD display	Yes							
Standard warranty [years]	5-10							

*Nominal AC power [VA]: 4600 for VDE4105/ *Max. AC power [VA]: (4600 for VDE4105) / *Max. AC current [A]: (21.7 for AS4777)