

# Single Phase String Inverter



## APEX-P1-1/1.5/2/2.5/3/3.6/4K



1 MPP trackers, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



80 Low start-up voltage of 80V

## Technical Data

Model	APEX -P1-1000	APEX -P1-1500	APEX -P1-2000	APEX -P1-2500	APEX -P1-3000	APEX -P1-3600	APEX -P1-4000
<b>Input Side</b>							
Max. DC Input Power (kW)	1.3	2	2.6	3.3	3.9	4.7	5.2
Max. DC Input Voltage (V)	550						
Start-up DC Input Voltage (V)	80						
MPPT Operating Range (V)	70~500						
Max. DC Input Current (A)	13						
Max. Short Circuit Current (A)	19.5						
No. of MPP Trackers	1						
No. of Strings per MPP Tracker	1						
<b>Output Side</b>							
Rated Output Power (kW)	1	1.5	2	2.5	3	3.6	4
Max. Active Power (kW)	1.1	1.65	2.2	2.75	3.3	3.96	4.4
Nominal Output Voltage / Range (V)	L/N/PE 220/230V (Optional)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A)	4.5/4.3	6.8/6.5	9.1/8.7	11.4/10.9	13.6/13	16.4/15.7	18.2/17.4
Max. AC Output Current (A)	5/4.8	7.5/7.2	10/9.6	12.5/12	15/14.3	18/17.2	20/19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	47~52 or 57~62 (Optional)						
<b>Efficiency</b>							
Max. Efficiency	97.3%	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	97.1%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%						
<b>Protection</b>							
DC Reverse-Polarity Protection	Yes						
AC Short Circuit Protection	Yes						
AC Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Resistance Protection	Yes						
Ground Fault Monitoring	Yes						
Anti-islanding Protection	Yes						
Temperature Protection	Yes						
Integrated DC Switch	Yes						
Remote software upload	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
<b>General Data</b>							
Size (mm)	280W×272.5H×184D						
Weight (kg)	4.8						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤35 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Warranty	5 years						
Grid Connection Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
<b>Features</b>							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						