

**Single Phase
PV String Inverter**
1-3 kW



**Single Phase
PV String Inverter**
3-6 kW



**Single Phase
PV String Inverter**
7-10 kW



■ Technical Data	AP-P1-1KW-1	AP-P1-1.5KW-1	AP-P1-2KW-1	AP-P1-2.5KW-1	AP-P1-3KW-1	AP-P1-3KW	AP-P1-3.6KW	AP-P1-4KW	AP-P1-5KW	AP-P1-6KW	AP-P1-7KW	AP-P1-8KW	AP-P1-9KW	AP-P1-10KW	
PV Input Data															
Max. DC Power (W)	1500	2250	3000	3750	4200	4500	5400	6000	7000	8400	9800	11200	12600	14000	
Max. DC Voltage (V)	500	500	500	500	500	600	600	600	600	600	600	600	600	600	
MPPT Voltage Range (V)	50-500	50-500	50-500	50-500	50-500	70-550	70-550	70-550	70-550	70-550	70-550	70-550	70-550	70-550	
MPPT Full Power Voltage Range (V)	70-500	110-500	145-500	180-500	220-500	110-550	130-550	145-550	180-550	220-550	220-550	220-550	220-550	220-550	
Rated Input Voltage (V)			360					360					360		
Start-up Voltage (V)			50					70					70		
Max. Input Current (A)			14					14 x 2				14+26		26+26	
Max. Short Current (A)			18					18 x 2				18+35		35+35	
No. of MPP Tracker / No. of PV String			1/1					2/2				2/3		2/4	
Input Connector Type			MC4					MC4					MC4		
AC Output Data															
Max. Output Power (VA)	1100	1650	2200	2750	3300	3300	3960	4400	5500	6600	7700	8800	9900	11000	
Nominal Output Power (W)	1000	1500	2000	2500	3000	3000	3600	4000	5000	6000	7000	8000	9000	10000	
Max. Output Current (A)	6	9	12	13	15	15	17.5	20	24	28.7	33.6	38.3	45	50	
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac					L/N/PE, 220Vac, 230Vac, 240Vac					L/N/PE, 220Vac, 230Vac, 240Vac				
Grid Voltage Range	180Vac-276Vac (According to local standard)					180Vac-276Vac (According to local standard)					180Vac-276Vac (According to local standard)				
Nominal Output Frequency (Hz)	50/60					50/60					50/60				
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)					45-55Hz/54-66Hz (According to local standard)					45-55Hz/54-66Hz (According to local standard)				
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					1 default (adjustable from 0.8 leading to 0.8 lagging)					1 default (adjustable from 0.8 leading to 0.8 lagging)				
Output Current THD	<3%					<3%					<3%				
Efficiency															
Max. Efficiency	97.50%	97.80%	98.10%	98.10%	98.13%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.32%	98.40%	
Euro Efficiency	96.60%	96.70%	96.80%	97.23%	97.56%	97.80%	97.82%	97.85%	97.90%	97.92%	97.95%	98.00%	98.00%	98.10%	
Protection															
PV Reverse Polarity Protection			YES					YES					YES		
PV Insulation Resistance Detection			YES					YES					YES		
AC Short Circuit Protection			YES					YES					YES		
AC Over Current Protection			YES					YES					YES		
AC Over Voltage Protection			YES					YES					YES		
Anti-Islanding Protection			YES					YES					YES		
Residual Current Detection			YES					YES					YES		
Over Temperature Protection			YES					YES					YES		
Integrated DC switch			YES					YES					YES		
Surge Protection			Integrated (Type III)					Integrated (Type III)					Integrated (Type III)		
Smart IV Curve Scanning			YES					YES					YES		
Quick Arc Fault Circuit Interruption			Optional					Optional					Optional		
General Data															
Dimensions (W x H x D, mm)	280 x 260 x 116					358 x 360 x 142					370 x 510 x 192		370 x 535 x 192		
Weight (kg)	6					10					17		18		
Protection Degree	IP65					IP65					IP65		IP65		
Enclosure Material	Aluminum					Aluminum					Aluminum		Aluminum		
Ambient Temperature Range (°C)	-25 - + 60					-25 - + 60					-25 - + 60		-25 - + 60		
Humidity Range	0-100%					0-100%					0-100%		0-100%		
Topology	Transformerless					Transformerless					Transformerless		Transformerless		
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					RS485 / WiFi / Wire Ethernet / GPRS (optional)					RS485 / WiFi / Wire Ethernet / GPRS (optional)		RS485 / WiFi / Wire Ethernet / GPRS (optional)		
Cooling Concept	Convection					Convection					Convection		Intelligent fan cooling		
Night Power Consumption (W)	<0.2	<0.2	<1	<1	<1			<1					<1		
Max. Operation Altitude (m)	4000					4000					4000		4000		
Certifications and Standards															
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12									
Safety Standard	IEC 60068, UL1741, EN62109					IEC 60068, UL1741, EN62109									
Grid connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727									