

	A1-Micro 300	A1-Micro 400	A1-Micro 450	A1-Micro 500	A1-Micro 600
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DC INPUT

Max. PV input power [W]	240 to 410+	320 to 550+	360 to 600+	400 to 670+	400 to 670+
Max. PV input voltage [V]			60		
MPPT voltage range[V]	22-45			22-55	
Start-up voltage [V]			20		
Max. PV input current[A]	14	18		20	
Max. input short circuit current I _{sc} [A]	20	20		25	
No. of MPP trackers			1		
Strings per MPP tracker			1		

AC OUTPUT

Rated AC output power [VA]	300	400	450	500	600
Rated grid voltage/range[V]	220 or 230 or 240 / 180-275				
Rated AC output current [A]	1.36 / 1.30 / 1.25	1.82 / 1.74 / 1.67	20.5 / 1.96 / 1.88	2.27 / 2.17 / 2.08	2.73 / 2.61 / 2.50
Nominal AC frequency/range [Hz]	50/45-55 or 60/55-65				
Maximum units per branch 25A	18 / 19 / 20	13 / 14 / 15	12 / 12 / 13	11 / 11 / 12	9 / 9 / 10
Power Factor range (adjustable)	>0.99(-0.8~0.8 adjustable)				
THDi (Rated power) [%]	< 3%				

Efficiency

Max. efficiency	96.50%				
Nominal MPPT efficiency	99.90%				
Night power consumption [mW]	< 40				

STANDARD

Safety	IEC62109-1/-2, IEC61000-6-1/-2/-3-4, IEC61000-3-2, IEC61000-3-3, IEC 61727, IEC 62116, IEC 61683				
Grid Connection Standard	EN50549-1:2019, VDE-AR-N 4105: 2018, VFR 2019, RD1699:2011, CEI 0-21:2019, ABNT NBR 16149, ABNT NBR 16150, AS/NZS 4777.2:2015				

ENVIRONMENT LIMIT

Ingress protection rating	IP67 (NEMA 6)				
Operating ambient temperature range [°C]	-40 ~ 65°C				
Humidity[%]	0 ~ 100(condensing)				
Storage temperature[°C]	- 40°C ~ 65°C				

GENERAL

Dimension(W x H x D) [mm]	206 x 178 x 34				
Weight [kg]	1.75				
Cooling concept	Natural convection				
Communication	PLC				
Monitoring	Solax Cloud				