

	A1-HV-3.0	A1-HV-3.7	A1-HV-4.6	A1-HV-5.0	A1-HV-6.0
INPUT / DC					
Max. PV Power / Wp	3900	4680	5980	6500	7800
Max. Input Voltage / V	600				
MPP Voltage Range / V	80-550				
Min. Input Voltage / V	75				
Nominal DC-Input Voltage / V	360				
Max. Input Current / A	13.5/13.5				
Max. DC Short Circuit Current / A	15/15				
No. of Independent MPPT Inputs	2				
No. of PV Strings per MPPT	1				
AC OUTPUT / INPUT					
Rated Power to grid / W	3000	3680	4600	5000	6000
Max. Apparent AC Power to grid / VA	3300	4048	5060	5500	6600
Max. Apparent AC Power from grid / VA	7000	7680	9600	10000	12000

Rated Grid Voltage / Vac	220/230/240					
Grid Connection	L/N/PE					
Rated Power Frequency / Hz	50/60					
Max. Output Current to grid / A	14.4	18.0	21.0	21.7	28.7	
Max. AC Current from grid / A	21.7	21.7	26.0	26.0	26.1	
Power Factor	0.8ind to 0.8cap					
THDi @ Rated Power	< 3%					
AC OUTPUT (BACK-UP)						
Rated Power / W	5000	5000	6000	6000	6600	
Peak Apparent Output Power @60" / VA	7200	7200	7200	7200	7200	
Rated Power Frequency / Hz	50/60					
Max. Output Current / A	17.4	17.4	21.7	21.7	26.1	
Automatic Switch Time / ms	<20					
Nominal Output Voltage / V	230					

Nominal Output Frequency / Hz	50/60
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THDv @ Linear Load	< 2%
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BATTERY INPUT**EFFICIENCY**

Battery Type	Li-ion	PV Max. Efficiency	97.8%
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Battery Voltage Range / V	85-450	PV Euro. Efficiency	97.0%
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Start Up Voltage / V	70	PV Max. MPPT Efficiency	99.9%
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Max. Charging/Discharging Current / A	35/35	Max. Charging Efficiency @ PV → Battery	98.5%
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Charging Strategy for Li-ion Battery	Auto-adaption to BMS	Max. Charge / Discharge Efficiency @ PV ↔ Load	97.0%
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PROTECTION FUNCTION

Anti-Islanding Protection	Integrated	Residual Current Monitoring	Integrated	Over Voltage Protection	II (DC), III (AC)
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PV Input Reverse Polarity Protection	Integrated	Output Over Current Prote	Integrated	Surge Protection	DC: Type II / AC: Type II
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Insulation Resistance Detection	Integrated	Output Short Circuit Prote	Integrated	Battery Reverse Polarity Prot	Integrated
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GENERAL DATA

Dimensions (W * H * D) / mm	385*480*170	AC Connection Type	Plug-in Connector	Relative Humidity	0% to 100%
Weight / kg	22	Communication with Cloud	WiFi / 4G (optional)	Max. Operating Altitude / m	2000
Noise Emission (Typical) / dB (A)	40	Communication with BMS	CAN / RS485	Protection Class	IP65
User Interface	LCD	Communication with Power	RS485	Climatic Category	4K4H
DC Connection Type	MC4	Cooling Method	Natural Cooling	Topology	Transformerless
Battery Connection Type	SUNCLIX	Operating Ambient Temp	-25~+60	Night Consumption / W	<1