

Technical Comparison

Single Phase Hybrid Inverter

FEATURE	Hybrid 3.6kW	Hybrid 5.0kW	Hybrid HV 8.0kW	Hybrid HV 10.0kW
Max AC Output Power	3.6kW	5.0kW	8.0kW	10.0kW
Backup Power Output (Off-Grid)	3.6kW	3.6kW	8.0kW	10.0kW
Max PV Input Power	7.5kWp	7.5kWp	12kWp	15kWp
MPPT Voltage Range	120V – 550V	120V – 550V	90V – 550V	90V – 550V
Max PV Voltage	600V	600V	600V	600V
MPPT Trackers / Strings per Tracker	2/1	2/1	2/2	2/2
Battery Voltage Range	45V – 58V	45V – 58V	120V – 510V	120V – 510V
Max Charge / Discharge Power	3.3kW / 3.6kW	3.3kW / 3.6kW	8kW / 8.5kW	10kW / 10.5kW
Charge / Discharge Current	65A / 81A	65A / 81A	25A / 25A	30A / 30A
Backup Switchover Time	10ms	10ms	10ms	10ms
THD (Linear Load)	< 3%	< 3%	< 3%	< 3%
Max Output Current	16A	21.7A	37A	46A
Grid Pass-Through Current	N/A	N/A	50A	50A
Power Factor (Full Load)	> 0.99	> 0.99	> 0.99	> 0.99
Protection Class	IP65	IP65	IP65	IP65
Inverter Efficiency (Euro / Max PV Efficiency)	97% / 97.6%	97% / 97.6%	97% / 97.6%	97% / 97.6%
Charge / Discharge Efficiency	94% / 94%	94% / 94%	96% / 96%	96% / 96%
Connectivity & Monitoring	WiFi, LAN, RS485	WiFi, LAN, RS485	WiFi, LAN, RS485, CANbus	WiFi, LAN, RS485, CANbus
Cooling System	Passive Cooling	Passive Cooling	Smart Fan Cooling	Smart Fan Cooling
Operating Temperature (Charging / Discharging)	0°C – 60°C / -10°C – 60°C	0°C – 60°C / -10°C – 60°C	0°C – 60°C / -10°C – 60°C	0°C – 60°C / -10°C – 60°C

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Altitude (Derating Above 2000m)	4000m	4000m	4000m	4000m
Self-Consumption	< 5W	< 5W	< 15W	< 15W
Protection Features	DC Reverse Polarity Protection, Ground Fault Monitoring, Overcurrent & Overvoltage Protection	DC Reverse Polarity Protection, Ground Fault Monitoring, Overcurrent & Overvoltage Protection	AFCI, DC Reverse Polarity Protection, Ground Fault Monitoring, Overcurrent & Overvoltage Protection	AFCI, DC Reverse Polarity Protection, Ground Fault Monitoring, Overcurrent & Overvoltage Protection
Dimensions (H x W x D mm)	588 x 214 x 480	588 x 214 x 480	588 x 214 x 480	588 x 214 x 480
Weight	32kg	32kg	36kg	36kg
Certification & Approvals (Global)	G98, G99, G100, TÜV, CE, EN50549, AS/NZS 3100, VDE 0126-1-1	G100, TÜV, CE, EN50549, AS/NZS 3100, VDE 0126-1-1	G99, G100	G99, G100
Warranty	12 Years	12 Years	12 Years	12 Years