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All-In-One ESS LITE**



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or 5,000
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DEVICE SHORT NAME	Hyper- 5KW/5kWh	Hyper 5KW/10kWh LITE	
PV STRING INPUT (DC)			
Max. DC Input Power (W)	6500W	6500W	
Max. DC Input Voltage (V)	550V	550V	
MPPT Voltage Range (V)	125V~500V	125V~500V	
Max. Input Current (A)	10.0A/10.0A	10.0A/10.0A	
Max. Short Circuit Current (A)	14.0A/14.0A	14.0A/14.0A	
No. of MPP Trackers	2	2	
Strings per MPP Tracker	1	1	
Galvanic Isolation for PV Modules	Transformerless	Transformerless	
BATTERY INPUT SIDE			
Battery Capacity	LiFePO4 5KWH/10KWH (Maximum 3 modules of the same type)		
Useable Energy	4.5 kWh	9kWh	
Nominal Battery Voltage	51.2V	51.2V	
Battery Voltage Range	40-58.4V	40-58.4V	
Galvanic Isolation for Battery	YES	YES	
Max. Charge Current*1	50A	100A	
Max. Discharge Current*2	100A	100A	
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over Temperature Lithium Ion: 0~100% DOD Adjustable, Lead Acid: 0~50 DOD Adjustable		
GRID AC OUTPUT (ON-GRID)			
Nominal Apparent Power Output to Utility Grid (VA)	5000VA	5000VA	
Maximum Apparent Power Output to Utility Grid*3	3000VA	3680VA	
Nominal Output Voltage (V)	230V	230V	
Nominal Output Frequency (HZ)	50/60 HZ	50/60 HZ	
Max. AC Current Output to Utility Grid (A)	21.7 A	21.7 A	
Max. AC Current from Utility Grid (A)	30 A	30 A	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDI (@Nominal Output)	<3%	<3%	
EPS AC OUTPUT DATA (BACK-UP)			
Max. Output Apparent Power (VA)	5000VA	5000VA	
Max. Output Current (A)	21.7 A	21.7 A	
Nominal Output Voltage (V)	230 (±2%)	230 (±2%)	
Nominal Output Frequency (HZ)	50/60 (±2%)	50/60 (±2%)	
Output THDv (@Linear Load)	<3%	<3%	
EFFICIENCY			
MPPT Efficiency	99.9%	99.9%	
Euro Efficiency	97.0%	97.0%	
Max. Efficiency	97.5%	97.5%	
Max. Battery to Load Efficiency	95%	95%	
Standby Power Losses	<0.5W	<0.5W	
Topology	High Frequency Isolation	High Frequency Isolation	
PROTECTION			
Anti-islanding Protection	YES	YES	
PV String Input Reverse Polarity Protection	YES	YES	
Insulation Resistor Dection	YES	YES	
Residual Current Monitoring Unit	YES	YES	
Output Over Current Protection	YES	YES	
Output Short Protection	YES	YES	
Output Over Voltage Protection	YES	YES	
GENERAL DATA			
DC Switch	Standard		Standard
Dimensions (W*H*D) (mm)	415x665x165mm	415x675x145mm	415x1135x165mm
Net Weight (KG)	45KG	35kg	85KG
Protection Degree	IP 21		IP 21
Mounting Information	Wall Bracket / Ground Mount	Wall Mount	Wall Bracket / Ground Mount
Operation Temperature Range	0-45°C charge / -20°C - 55°C discharge	-20°C ~ + 60°C	0-45°C charge / -20°C - 55°C discharge
Noise Emission (typical) (dB)	<25dB	<40dB	<25dB
User Interface	APP		APP
Communication with BMS*5	RS 485 & CAN		RS 485 & CAN
Communication with Meter	RS 485		RS 485
Communication with Portal	Wi-Fi		Wi-Fi
Relative Humidity (%)	0~95%	4% ~ 100% Condensing	0~95%
Site Altitude (m)	<400m		<400m
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Protective Class		I	
Over Voltage Category		III (mains) II (PV)	
CERTIFICATIONS & STANDARDS			
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G99, CE10-21, NRS 097-2-1, En50438		
Safety Regulation	IEC/EN62109-1&2, IEC62040-1		
EMC Standard	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4.16, EN6100-4.18, EN6100-4.29		
Warranty	3 +2 Years Standard Warranty		
*1 N is the number of battery modules	*2 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2, 4050 for CE10-21		
*3 21.7A for AS4777.2	*4 Can be reached only if PV and battery power is enough		
*5 The standard configuration is CAN			