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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	5000VA	5000VA
Max. Apparent Power from Utility Grid (VA)	9200VA	9200VA
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
Peak Output Apparent (VA)*4	1.1x Phom 10 sec 1.5x Phom 100ms Peak Output	
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
Net Weight (KG)	45KG	35kg
Protection Degree	IP 21	IP 21
Mounting Information	Wall Bracket / Ground Mount	Wall Mount
Operation Temperature Range	0-45°C charge / -20°C - 55°C discharge	-20°C ~ + 60°C
Noise Emission (typical) (dB)	<25dB	<40dB
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
Site Altitude (m)	<400m	<400m
Cooling Concept	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
*3 21.7A for AS4777.2
*5 The standard configuration is CAN

*2 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2, 4050 for CE10-21
*4 Can be reached only if PV and battery power is enough