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All-in-One ESS IP65 Range
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Available in Hybrid or AC Coupled Inverter Options



10 Year Warranty
or 10,000
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| DEVICE SHORT NAME | Hyper-3KW | Hyper-3/68KW | Hyper-5KW |
|--|--|-----------------------------|-----------------------------|
| PV STRING INPUT (DC) | | | |
| Max. DC Input Power (W) | 3900W | 4600W | 6500W |
| Max. DC Input Voltage (V) | 550V | 550V | 550V |
| MPPT Voltage Range (V) | 125~500V | 125V~500V | 125V~500V |
| Max. Input Current (A) | 12.0A | 10.0A/10.0A | 10.0A/10.0A |
| Max. Short Circuit Current (A) | 15.0A | 14.0A/14.0A | 14.0A/14.0A |
| No. of MPP Trackers | 1 | 2 | 2 |
| Strings per MPP Tracker | 2 | 1 | 1 |
| Galvanic Isolation for PV Modules | Transformerless | Transformerless | Transformerless |
| BATTERY INPUT SIDE | | | |
| Battery Capacity | LiFePO4 2KWH/2.5KWH/4.5KWH/5KWH (Maximum 5 modules of the same type) | | |
| Nominal Battery Voltage | 48V | 48V | 48V |
| Battery Voltage Range | 40-60V | 40-60V | 40-60V |
| Galvanic Isolation for Battery | YES | YES | YES |
| Max. Charge Current*1 | 60A | 60A (Optional 75A) | 100A |
| Max. Discharge Current*2 | 60A | 60A (Optional 75A) | 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) | 3000VA | 3680VA | 5000VA |
| Maximum Apparent Power Output to Utility Grid*3 | 3000VA | 3680VA | 5000VA |
| Max. Apparent Power from Utility Grid (VA) | 6000VA | 7360VA | 9200VA |
| Nominal Output Voltage (V) | 230V | 230V | 230V |
| Nominal Output Frequency (HZ) | 50/60 HZ | 50/60 HZ | 50/60 HZ |
| Max. AC Current Output to Utility Grid (A) | 13 A | 16 A | 21.7 A |
| Max. AC Current from Utility Grid (A) | 26 A | 32 A | 30 A |
| Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| Output THDI (@Nominal Output) | <3% | <3% | <3% |
| EPS AC OUTPUT DATA (BACK-UP) | | | |
| Max. Output Apparent Power (VA) | 3000VA | 3680VA | 5000VA |
| Max. Output Current (A) | 16 A | 17.4 A | 21.7 A |
| Nominal Output Voltage (V) | 230(±2%) | 230 (±2%) | 230 (±2%) |
| Nominal Output Frequency (HZ) | 50/60 (±2%) | 50/60 (±2%) | 50/60 (±2%) |
| Output THDv (@Linear Load) | <3% | <3% | <3% |
| EFFICIENCY | | | |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% |
| Euro Efficiency | 97.0% | 97.0% | 97.0% |
| Max. Efficiency | 97.5% | 97.5% | 97.5% |
| Max. Battery to Load Efficiency | 95% | 95% | 95% |
| Standby Power Losses | <0.5W | <0.5W | <0.5W |
| Topology | High Frequency Isolation | High Frequency Isolation | High Frequency Isolation |
| PROTECTION | | | |
| Anti-islanding Protection | YES | YES | YES |
| PV String Input Reverse Polarity Protection | YES | YES | YES |
| Insulation Resistor Detection | YES | YES | YES |
| Residual Current Monitoring Unit | YES | YES | YES |
| Output Over Current Protection | YES | YES | YES |
| Output Short Protection | YES | YES | YES |
| Output Over Voltage Protection | YES | YES | YES |
| GENERAL DATA | | | |
| DC Switch | Optional | Optional | Optional |
| Dimensions (W*H*D) (mm) | 414*N/1242/145mm | 414*N/1374/145mm | 414*N/1374/145mm |
| Net Weight (KG) | 66KG/104KG/142KG | 66KG/104KG/142KG | 73KG/111KG/149KG |
| Protection Degree | IP 65 | IP 65 | IP 65 |
| Mounting Information | Wall Bracket | Wall Bracket | Wall Bracket |
| Operation Temperature Range | (20°C~+60°C(45°C derating)) | (20°C~+60°C(45°C derating)) | (20°C~+60°C(45°C derating)) |
| Noise Emission (typical) (dB) | <25db | <25db | <25db |
| User Interface | APP | APP | APP |
| Communication with BMS*5 | RS 485 & CAN | RS 485 & CAN | RS 485 & CAN |
| Communication with Meter | RS 485 | RS 485 | RS 485 |
| Communication with Portal | Wi-Fi | Wi-Fi | Wi-Fi |
| Relative Humidity (%) | 0~95% | 0~95% | 0~95% |
| Site Altitude (m) | <400m | <400m | <400m |
| Cooling Concept | Natural Convection | Natural Convection | Natural Convection |
| CERTIFICATIONS & STANDARDS | | | |
| Grid Regulation | VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G59, CEI10-21, 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 | 5-10 Years Standard Warranty (dependent on territory) | | |

*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 CEI10-21
 *4 Can be reached only if PV and battery power is enough