Split-Phase Hybrid Inverter 7.2-12kW

E-Able Power · Lishui E-able Power Equipment Co., Ltd · www.e-ablepower.com · arthur@e-ablepower.com

Model	SDPO-U 7.2kW Split	SDPO-IP 10kW Split	SDPO-IP 12kW Split
Rated Output Power (Split Phase)	7200 W / VA	10000 W / VA	12000 W / VA
Rated Output Power (Single Phase)	6000 W / VA	7200 W / VA (terminal limited)	7200 W / VA (terminal limited)
Output Voltage / Waveform	120Vac (L1/N, L2/N) / 240Vac (L1/L2), ±5% — Pure sine wave		
Output Frequency	50Hz±0.3 / 60Hz±0.3 (auto detection)		
Battery Voltage	51.2V nominal (40.0–58.6Vdc, min. start-up 44V) — LiFePO4 / lead-acid, BMS self-adaptation		
Max. Charging Current (PV + AC)	0–150A (AC 120A / PV 150A)	0–220A (AC 120A / PV 220A)	0–220A (AC 160A / PV 220A)
Max. Discharging Current	160A	— (confirm with factory)	270A
MPPT Trackers	2	2	2
Max. PV Input Power	4500W + 4500W	6000W + 6000W	6000W + 6000W
Max. PV Open-Circuit Voltage	500Vdc (MPPT range 90–450Vdc, operating 90–485Vdc)		
Peak Power (Off-Grid, 10s)	1.5× rated (10800VA)	15000VA	18000VA
Loaded Motor Capability	4HP	5HP	6HP
Transfer Time (Bypass ↔ Inverter)	10ms (typical)		
Parallel Operation	1–6 units (SDPO-U-7.2kw-P / SDPO-IP series)		
Max. Efficiency	>93%	>91%	>93%
Certification	UL 1741	UL 1741 / CSA C22.2#107.1	UL 1741 / CSA C22.2#107.1
EMC / Grid Standard	FCC Part 15 Class B / IEEE 1547 (grid-connection function available, certification not obtained)		
Communication	USB / RS485 / WiFi / GPRS / Dry contact — remote monitoring via App & Web		
Operating Temperature	-10°C to +55°C (>45°C derating), humidity 5–95% (conformal coated), IP20		
Cabinet Size (W×H×D mm)	580 × 359 × 127	620 × 450 × 132	620 × 450 × 132
Weight	15.9 kg	23.8 kg	24.3 kg
Protections	PV current limiting & reverse-polarity, mains over/under voltage, battery over/under voltage, load short-circuit, heat-sink over-temperature, overload, back-feed, AC reverse, bypass over-current, parallel communication & current-sharing faults, synchronization — 21 built-in protections		
Warranty	2 years standard (per datasheet)		

Compliance

CE (EMC / LVD test reports) · IEC-referenced test data · RoHS · ISO 9001 · ISO 14001 · ISO 45001

Parameters on this sheet are taken from the current product page. Warranty terms, packing data and certifications are confirmed per order in the quotation.