IP-PLUS SPLIT HYBRID INVERTER

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

Parameter	12kW-P	16kW-P
Parallel Mode		
Permitted Parallel Number	1–6	1–6
AC Mode		
Rated Input Voltage (VAC)	120(L1/N, L2/N) / 240(L1/L2)	120(L1/N, L2/N) / 240(L1/L2)
Input Phase Voltage Range	(85Vac~140Vac) ±2%	(85Vac~140Vac) ±2%
Frequency (Hz)	50 / 60 (Auto detection)	50 / 60 (Auto detection)
Frequency Range (Hz)	47±0.3 ~ 55±0.3 (50Hz) | 57±0.3 ~ 65±0.3 (60Hz)	47±0.3 ~ 55±0.3 (50Hz) | 57±0.3 ~ 65±0.3 (60Hz)
Overload / Short Circuit Protection	Circuit breaker	Circuit breaker
Efficiency (AC Mode)	>95%	>93.5%
Conversion Time (Bypass <> Inverter)	10ms (typical)	10ms (typical)
AC Reverse Protection	Yes	Yes
Max Bypass Phase Overload Current	2pole, 200A/200A (L1/L2)	2pole, 200A/200A (L1/L2)
Inverter Mode		
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave
Rated Output Power (VA)	12,000	16,000
Rated Output Power (W)	12,000	16,000
Power Factor	1	1
Rated Output Voltage (VAC)	120(L1/N, L2/N) / 240(L1/L2)	120(L1/N, L2/N) / 240(L1/L2)
Output Voltage Error	±5%	±5%
Output Frequency Range (Hz)	50 ±0.3 / 60 ±0.3	50 ±0.3 / 60 ±0.3
Maximum Efficiency (Inverter)	>91%	>93.5%
Overload Protection	105%125%±5%: off after 5s	105%125%±5%: off after 5s
Peak Power (VA)	18,000	24,000
Loaded Motor Capability	6HP	6HP
Output Short Circuit Protection	Protects after 1s continuous short circuit	Protects after 1s continuous short circuit
Bypass Circuit Breaker Phase Spec	2pole, 200A/200A (L1/L2)	2pole, 200A/200A (L1/L2)
Rated Battery Input Voltage	51.2V (minimum starting voltage 44V)	51.2V (minimum starting voltage 44V)
General		
Battery Voltage Range	40.0Vdc ~ 58.6Vdc ±0.6Vdc (alarm / shutdown / recovery settable on LCD)	40.0Vdc ~ 58.6Vdc ±0.6Vdc (alarm / shutdown / recovery settable on LCD)
Power-Saving Mode Self-Consumption	Load per phase <25W enters power-saving mode	Load per phase <25W enters power-saving mode
AC Charging		
Battery Type	Lead acid or lithium battery	Lead acid or lithium battery
Maximum Charge Current (settable)	160A	200A
Charge Current Error	±5Adc	±5Adc
Charge Voltage Range	40-58.6Vdc	40-58.6Vdc
Short Circuit Protection	Circuit breaker and blown fuse	Circuit breaker and blown fuse
Circuit Breaker Phase Spec	2pole, 63A/63A (L1/L2)	2pole, 63A/63A (L1/L2)

Parameter	12kW-P	16kW-P
Generator Mode		
Rated Input Voltage (VAC)	120(L1/N, L2/N) / 240(L1/L2)	120(L1/N, L2/N) / 240(L1/L2)
Input Phase Voltage Range	(85Vac~140Vac) ±2%	(85Vac~140Vac) ±2%
Frequency Range (Hz)	40±0.3 ~ 70±0.3	40±0.3 ~ 70±0.3
Maximum Charge Current (settable)	160A	200A
Overload / Short Circuit Protection	Circuit breaker	Circuit breaker
Circuit Breaker Phase Spec	2pole, 63A/63A (L1/L2)	2pole, 63A/63A (L1/L2)
PV Charging		
Number of MPPT Groups	2	2
Maximum PV Open Circuit Voltage	500Vdc	500Vdc
PV Operating Voltage Range	90–485Vdc	90–500Vdc
MPPT Voltage Range	90Vdc ~ 450Vdc	90Vdc ~ 450Vdc
Battery Voltage Range	40-58.6Vdc	40-58.6Vdc
Maximum PV Input Power	12,000W + 12,000W	
Maximum PV Input Current	32A + 32A	36A + 36A
PV Charge Current (settable)	250A	300A
Charging Short Circuit Protection	Circuit breaker	Circuit breaker
Wiring Protection	Reverse polarity protection	Reverse polarity protection
Hybrid Charging (AC + PV)		
Max Charger Current (settable)	0–250A	0–300A
Certified Specifications		
Certification	UL1741 — US Grid-Interconnection Safety Standard	UL1741 — US Grid-Interconnection Safety Standard
EMC Certification Level	FCC Part 15, Class B	FCC Part 15, Class B
Operating Temperature Range	-10°C ~ 55°C (>45°C derating)	-10°C ~ 55°C (>45°C derating)
Storage Temperature Range	-25°C ~ 60°C	-25°C ~ 60°C
Humidity Range	5% ~ 95% (conformal coating protection)	5% ~ 95% (conformal coating protection)
Noise	≤60dB	≤60dB
Heat Dissipation	Forced air cooling, variable-speed fan	Forced air cooling, variable-speed fan
Communication Interface	USB / RS485 (WiFi / GPRS) / Dry-node control	USB / RS485 (WiFi / GPRS) / Dry-node control
Size (L×W×D)	710 × 485 × 145 mm	760 × 485 × 160.8 mm
Weight (kg)	37.5kg	40.5kg

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.