HIONE - THREE-PHASE ENERGY STORAGE SYSTEM

HiOne-xT-yB-G3-AU



Features

01 Supports three-phase unbalanced output, ensuring stable operation under complex load conditions

02 Up to 200% DC/AC oversizing to significantly boost power generation efficiency

03 Four independent 20 A MPPTs, perfectly compatible with high-power modules and multi-orientation rooftops

04 Rugged IP66 enclosure design ensures performance in harsh environments

05 Enables up to 150% off-grid peak output, allowing effortless startup of inductive loads

06 Built-in intelligent EMS automatically optimizes energy storage and consumption strategies

Made in China Region: Global 20260120

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure, and to compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if they fail to be of acceptable quality and the failure does not amount to a major failure.

HiOne-xT-yB-G3-AU

HiOne-xT-yB-G3-AU						
HiOne-8T-	8B-G3-AU	16B-G3-AU	24B-G3-AU	32B-G3-AU	40B-G3-AU	48B-G3-AU
Inverter						
Inverter model	HiOne-8T-G3-AU					
Number of inverter	1					
Battery						
Battery model	HiOne-8B-G3					
Battery Type	LiFePO4					
Battery side voltage range(V)	17.6-28.8					
BUS side voltage range(V)	720-950					
Max. charge/discharge current (A)	11.1/11.7					
Number of module	1	2	3	4	5	6
Total energy capacity (kWh)	8	16	24	32	40	48
PV Input						
Recommended max. PV power(W)	16000					
Max. input voltage(V)	1000					
Rated voltage(V)	720					
Start voltage(V)	170					
MPPT voltage range(V)	150-950					
Full power MPPT voltage range(V)	267-950					
Max. input current per MPPT(A)	20					
Max. short circuit current per MPPT(A)	30					
MPPT number	3					
Strings number per MPPT	1					
AC Input and Output (On-grid)						
Rated Input/output power (W)	8000					
Rated Output Apparent Power (VA)	8000					
Max. on-grid Input/output apparent power (VA)	8800					
Rated Input/output current (A)	12.1					
Max. Input/output current (A)	13.3					
Grid form	3L/N/PE					
Rated AC Input/output voltage (V)	220/380, 230/400					
Rated grid frequency (Hz)	50/60					
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi (@rated output)	< 3%					
General						
Dimensions (W*H*D [mm])	620*815*255	620*1175*255	620*1535*255	620*1895*255	620*1535*255 620*815*255	620*1535*255 620*1175*255
Weight (kg)	99	166	233	300	368	435
Operating temperature (°C)	-20 to +55					
Relative humidity	0%-100%					
Altitude (m)	≤ 4000					
Overvoltage category	III (Mains), II (PV) (Battery)					
Protective class	Class I					
Active anti-islanding method	AFD					
Depth of discharge	100%					
Outdoor pollution degree	PD3					
Warranty	10 years					
Manufacturing country	China					

HiOne-10T-	8B-G3-AU	16B-G3-AU	24B-G3-AU	32B-G3-AU	40B-G3-AU	48B-G3-AU
Inverter						
Inverter model	HiOne-10T-G3-AU					
Number of inverter	1					
Battery						
Battery model	HiOne-8B-G3					
Battery Type	LiFePO4					
Battery side voltage range(V)	17.6-28.8					
BUS side voltage range(V)	720-950					
Max. charge/discharge current (A)	13.9/14.6					
Number of module	1	2	3	4	5	6
Total energy capacity (kWh)	8	16	24	32	40	48
PV Input						
Recommended max. PV power(W)	20000					
Max. input voltage(V)	1000					
Rated voltage(V)	720					
Start voltage(V)	170					
MPPT voltage range(V)	150-950					
Full power MPPT voltage range(V)	333-950					
Max. input current per MPPT(A)	20					
Max. short circuit current per MPPT(A)	30					
MPPT number	3					
Strings number per MPPT	1					
AC Input and Output (On-grid)						
Rated Input/output power (W)	9900					
Rated Output Apparent Power (VA)	9900					
Max. on-grid Input/output apparent power (VA)	9900					
Max Input/output current (A)	14.3					
Rated Input/output current (A)	14.3					
Grid form	3L/N/PE					
Rated AC Input/output voltage (V)	220/380, 230/400					
Rated grid frequency (Hz)	50/60					
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi (@rated output)	< 3%					
General						
Dimensions (W*H*D [mm])	620*815*255	620*1175*255	620*1535*255	620*1895*255	620*1535*255 620*815*255	620*1535*255 620*1175*255
Weight (kg)	99	166	233	300	368	435
Operating temperature (°C)	-20 to +55					
Relative humidity	0%-100%					
Altitude (m)	≤ 4000					
Overvoltage category	III (Mains), II (PV) (Battery)					
Protective class	Class I					
Active anti-islanding method	AFD					
Depth of discharge	100%					
Outdoor pollution degree	PD3					
Warranty	10 years					
Manufacturing country	China					

HiOne-12T-	8B-G3-AU	16B-G3-AU	24B-G3-AU	32B-G3-AU	40B-G3-AU	48B-G3-AU
Inverter						
Inverter model	HiOne-12T-G3-AU					
Number of inverter	1					
Battery						
Battery model	HiOne-8B-G3					
Battery Type	LiFePO4					
Battery side voltage range(V)	17.6-28.8					
BUS side voltage range(V)	720-950					
Max. charge/discharge current (A)	16.7/17.5					
Number of module	1	2	3	4	5	6
Total energy capacity (kWh)	8	16	24	32	40	48
PV Input						
Recommended max. PV power(W)	24000					
Max. input voltage(V)	1000					
Rated voltage(V)	720					
Start voltage(V)	170					
MPPT voltage range(V)	150-950					
Full power MPPT voltage range(V)	300-950					
Max. input current per MPPT(A)	20					
Max. short circuit current per MPPT(A)	30					
MPPT number	4					
Strings number per MPPT	1					
AC Input and Output (On-grid)						
Rated Input/output power (W)	12000					
Rated Output Apparent Power (VA)	12000					
Max. on-grid Input/output apparent power (VA)	13200					
Max Input/output current (A)	20.0					
Rated Input/output current (A)	18.1					
Grid form	3L/N/PE					
Rated AC Input/output voltage (V)	220/380, 230/400					
Rated grid frequency (Hz)	50/60					
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi (@rated output)	< 3%					
General						
Dimensions (W*H*D [mm])	620*815*255	620*1175*255	620*1535*255	620*1895*255	620*1535*255 620*815*255	620*1535*255 620*1175*255
Weight (kg)	99	166	233	300	368	435
Operating temperature (°C)	-20 to +55					
Relative humidity	0%-100%					
Altitude (m)	≤ 4000					
Overvoltage category	III (Mains), II (PV) (Battery)					
Protective class	Class I					
Active anti-islanding method	AFD					
Depth of discharge	100%					
Outdoor pollution degree	PD3					
Warranty	10 years					
Manufacturing country	China					

HiOne-16T-	8B-G3-AU	16B-G3-AU	24B-G3-AU	32B-G3-AU	40B-G3-AU	48B-G3-AU
Inverter						
Inverter model	HiOne-16T-G3-AU					
Number of inverter	1					
Battery						
Battery model	HiOne-8B-G3					
Battery Type	LiFePO4					
Battery side voltage range(V)	17.6-28.8					
BUS side voltage range(V)	720-950					
Max. charge/discharge current (A)	22.2/23.3					
Number of module	1	2	3	4	5	6
Total energy capacity (kWh)	8	16	24	32	40	48
PV Input						
Recommended max. PV power(W)	32000					
Max. input voltage(V)	1000					
Rated voltage(V)	720					
Start voltage(V)	170					
MPPT voltage range(V)	150-950					
Full power MPPT voltage range(V)	400-950					
Max. input current per MPPT(A)	20					
Max. short circuit current per MPPT(A)	30					
MPPT number	4					
Strings number per MPPT	1					
AC Input and Output (On-grid)						
Rated Input/output power (W)	16000					
Rated Output Apparent Power (VA)	16000					
Max. on-grid Input/output apparent power (VA)	17600					
Max Input/output current (A)	26.7					
Rated Input/output current (A)	24.2					
Grid form	3L/N/PE					
Rated AC Input/output voltage (V)	220/380, 230/400					
Rated grid frequency (Hz)	50/60					
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi (@rated output)	< 3%					
General						
Dimensions (W*H*D [mm])	620*815*255	620*1175*255	620*1535*255	620*1895*255	620*1535*255 620*815*255	620*1535*255 620*1175*255
Weight (kg)	99	166	233	300	368	435
Operating temperature (°C)	-20 to +55					
Relative humidity	0%-100%					
Altitude (m)	≤ 4000					
Overvoltage category	III (Mains), II (PV) (Battery)					
Protective class	Class I					
Active anti-islanding method	AFD					
Depth of discharge	100%					
Outdoor pollution degree	PD3					
Warranty	10 years					
Manufacturing country	China					

HiOne-20T-	8B-G3-AU	16B-G3-AU	24B-G3-AU	32B-G3-AU	40B-G3-AU	48B-G3-AU
Inverter						
Inverter model	HiOne-20T-G3-AU					
Number of inverter	1					
Battery						
Battery model	HiOne-8B-G3					
Battery Type	LiFePO4					
Battery side voltage range(V)	17.6-28.8					
BUS side voltage range(V)	720-950					
Max. charge/discharge current (A)	27.8/29.2					
Number of module	1	2	3	4	5	6
Total energy capacity (kWh)	8	16	24	32	40	48
PV Input						
Recommended max. PV power(W)	40000					
Max. input voltage(V)	1000					
Rated voltage(V)	720					
Start voltage(V)	170					
MPPT voltage range(V)	150-950					
Full power MPPT voltage range(V)	500-950					
Max. input current per MPPT(A)	20					
Max. short circuit current per MPPT(A)	30					
MPPT number	4					
Strings number per MPPT	1					
AC Input and Output (On-grid)						
Rated Input/output power (W)	20000					
Rated Output Apparent Power (VA)	20000					
Max. on-grid Input/output apparent power (VA)	22000					
Max Input/output current (A)	33.3					
Rated Input/output current (A)	30.3					
Grid form	3L/N/PE					
Rated AC Input/output voltage (V)	220/380, 230/400					
Rated grid frequency (Hz)	50/60					
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi (@rated output)	< 3%					
General						
Dimensions (W*H*D [mm])	620*815*255	620*1175*255	620*1535*255	620*1895*255	620*1535*255 620*815*255	620*1535*255 620*1175*255
Weight (kg)	99	166	233	300	368	435
Operating temperature (°C)	-20 to +55					
Relative humidity	0%-100%					
Altitude (m)	≤ 4000					
Overvoltage category	III (Mains), II (PV) (Battery)					
Protective class	Class I					
Active anti-islanding method	AFD					
Depth of discharge	100%					
Outdoor pollution degree	PD3					
Warranty	10 years					
Manufacturing country	China					

Scan the QR code or visit our website www.hoymiles.com/download-center.html to access the manual.

Scan the QR code or visit our YouTube www.youtube.com/@Hoymiles/videos to access the Installation video.

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