

AE 3.0/3.68/4.0/5.0/6.0HS

Single Phase Hybrid Inverter / 2 MPPTs



Ver. 25. 9. 1



SAFE & RELIABLE

Built-in arc-fault circuit-Interrupter
Type II SPD, both DC & AC sides
Remote fault diagnosis and firmware upgrade



HIGH EFFICIENCY

DC/AC ratio up to 1.5
Extra load capacity under EPS mode
Switch time to EPS mode within 10ms



USER-FRIENDLY DESIGN

Fan-less and silent design
85~460V Wide battery voltage range
Built-in multiple operating modes
Adapt to the AC coupling system

Deutsche
Qualität
Garantiert

AE 3.0/3.68/4.0/5.0/6.0HS

Single Phase Hybrid Inverter/2 MPPTs

SINGLE PHASE • 2 MPPTS

Model		AE3.0HS	AE3.68HS	AE4.0HS	AE5.0HS	AE6.0HS
PV input	Recommended max. PV power (STC) (Wp)	4500	5520	6000	7500	9000
	Max. PV input voltage (1) (V)			600		
	Startup voltage (V)			100		
	Rated PV input voltage (V)			360		
	MPPT operating voltage range (2) (V)			90 ~ 560		
	No. of MPP trackers / strings per MPP tracker			2 / (1/1)		
	Max. input current per MPPT (A)			16		
	Max. short circuit current per MPPT (A)			25		
Battery input	Battery type			LiFePO ₄		
	Battery voltage range (V)			85 ~ 460		
	Max. charge/discharge current (A)			25 / 25		
	Max. charge/discharge power (W)	3000 / 3000	3680 / 3680	4000 / 4000	5000 / 5000	6000 / 6000
Grid output	Rated grid output power (W)	3000	3680	4000	5000	6000
	Max. grid output apparent power (VA)	3000	3680	4000	5000	6000
	Max. grid output current (A)	13	16	17.4	21.7	26.1
	Rated grid voltage (V)			L / N / PE, 230		
	Rated grid frequency (HZ)			50 / 60		
	THDi			< 3%		
	Power factor range			0.8leading ~ 0.8lagging		
Grid input	Max. input apparent power (VA)	6000	7300	8000	10000	12000
	Max. input current (A)	26	32	34.8	43.4	52.3
	Rated grid voltage (V)			L / N / PE, 230		
	Rated grid frequency (HZ)			50 / 60		
Back-up	Rated output power (W)	3000	3680	4000	5000	6000
	Peak output power, Duration (VA, s)	5000, 10	5000, 10	5000, 10	7500, 10	7500, 10
	Back up switch time (ms)			10		
	Rated output voltage (V)			230		
	Rated output frequency (Hz)			50 / 60		
Efficiency	Max. efficiency	97.60%	General data	Dimensions (W*H*D) (mm)	470*375*178	
	EU efficiency	97.00%		Weight (kg)	17.2	
Protection	Anti islanding protection	Yes		Installation method	Wall-mounted	
	Leakage current protection	Yes		Topology	Transformerless	
	PV reverse protection	Yes		Protection degree	IP65	
	Short circuit protection	Yes		Operating temperature (°C)	-25 ~ 60	
	Arc-fault circuit-interrupter	Yes		Humidity	0 ~ 100%	
	RSD	Optional		Cooling method	Natural	
	Surge protection	DC II / AC II		Max. operating altitude	4000m (>3000m derating)	
	Battery reverse protection	Yes		Display	LED	
				Communication method	Wifi / 4G / Ethernet, RS485, CAN	

IEC62109-1/-2, IEC62116, IEC61727, IEC61683, IEC/EN62477, IEC60068

(1) Exceeding the maximum input voltage will damage the inverter and trigger its self-protection mechanism.

(2) DC input voltage beyond the MPPT operating voltage range will cause the inverter to be out of work.

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.



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