

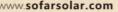
Single-Phase

Energy storage integrated inverter

Outdoor IP65 design

- Compatible with on grid and off grid
- A variety of work modes are optional
- EPS function, switching time is less than 10ms
- Built-in zero export function
- Flexible configuration of lead acid or lithium battery
- Integrated fanless self-recognition heat dissipation design

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Datasheet	3000-ES	3600-ES	4000-ES	HYD * 4600-ES	5000-ES	6000-ES	
Battery Parameters							
Battery Type			Lithium-ion				
Nominal battery voltage	48V						
Battery voltage range	42-58V						
Battery Capacity	50-2000Ah						
Maximum Charging / Discharging Power Maximum Charging Current	3000W 65A (Programmable)						
Maximum Discharging Current	65A (Programmable) 70A (Programmable)						
Charging curve(Lithium-ion)	PMS BMS						
Charging curve(Lead-acid)	3-Stage adaptive with maintenance						
Depth of discharge		Lithium-i	on: 0-90% DOD adjustable	Lead-acid:0-50% DOD a	djustable		
Input DC(PV side)							
	200014/-	4700)4/-	522014/-	¢120W-	//F0\A/-	70004/-	
Recommended Max. PV input power Max DC power for single MPPT	3990Wp 2000W	4790Wp 2400W	5320Wp 2600W	6120Wp 2800W	6650Wp 3000W	7980Wp 3500W	
Max. input voltage	200011	240011	600		300077	330011	
Start-up voltage			120				
Nominal DC Voltage	360V						
MPPT operating voltage range		90-580V					
Full power MPPT voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V	
MPPT number			2				
The max DC input current	12A/12A						
The max DC input short current			15A/	15A			
Output AC(Grid side)							
Rated Power	3000W	3680W	4000W	4600W	5000W	6000W	
Max. Output Power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA	
Nominal Grid Voltage			L/N/PE, 220				
Operation phase	Single (L-N-PE)						
Max. Input / Output current	13.7A 16A 18.2A 21.0A 22.8A 27.3A						
AC voltage Range	180V~276V (According to local standard)						
Grid Frequency range THD	44-55Hz/54-66Hz (According to local standard) <3%						
Power factor			1 default (+/-0	Carrie Control of Control			
	Committee		r deladit (+/-0	asjastable)			
Output AC(Emergency Power	Supply)						
EPS rated power			3000				
Operation phase	Single (L-N-PE)						
EPS rated voltage, Frequency	230V, 50/60Hz						
EPS rated current	13.2A 4000VA 10s						
Peak Output Apparent Power THD	4000VA, 10s < 3%						
Switch time			10ms d				
				71971			
Efficiency							
MPPT efficiency			99.5				
Max efficiency of solar Inverter	97.6%	97.6%	97.6%	97.8%	97.8%	98.0%	
European efficiency of solar Inverter	97.2%	97.2%	97.2%	97.3%	97.3%	97.5%	
Max. Charging efficiency of battery Max. DisCharging efficiency of battery			94.6				
			71	,,,,			
Protection							
PV reverse polarity protection			Ye				
PV insulation detection	Yes						
Ground fault monitoring	Yes						
Over current protection	Yes						
Over voltage protection Battery soft start protection	Yes Yes						
SPD protection	Tes III						
General Data							
Ambient temperature range			-25°C~+60°C (Abo				
Standby Losses	<10W						
Topology	High frequency insolation (for bat)						
DC-Switch	Yes IP65						
Degree Of Protection Allowable Relative Humidity Range	0~100%						
Allowable Relative Humidity Range Communication	RS485, Wifi/Ethernet/GPRS, SD, CAN2.0						
Protective class	Class I						
Max. Operating Altitude			200				
Current Sensor Connection	External						
Noise	<25dB						
Weight			20.5	ikg			
Cooling	Natural						
Dimension (W*H*D)	566*394*173 mm						
Display			LCD	lislay			
Warranty			5 Years o	or more			
Standard							
EMC		EN 61000 6-2 EN 6	61000-6-3, EN 61000-3-2, E	N 61000-3-3 EN 61000 3	-11 FN 61000-3-12		
Safety standards			IEC62040-1, IEC62116, IEC				
Salety Stalidards		12-002107-1/2,					