



Off-grid PV Controller & Inverter

SPO-M Series (20~120kVA)

- » 3 in 1 Integrated Off-grid System
- » Innovative hybrid system
- » Intelligent Energy Management System
- » Efficient and Flexible

Efficient and Flexible

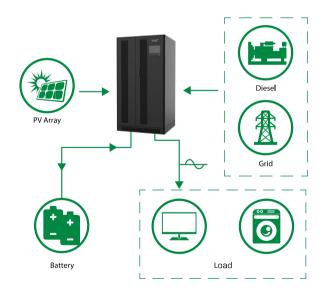
- Wide MPPT range 420~850V
- MPPT efficiency up to 99.8%
- Three phase output isolation transformer support 100% unbalanced load
- Hot-swap MPPT modules, flexible configurationand expansion
- Front access, easy for installation and maintenance.
- Integrated design, less initial investment and footprint, lower maintenance cost

Excellent Performance

- PV controller+AC charger+inverter, 3 in 1 integrated system
- Intelligent EMS achieves smart energy control among Solar, Battery, Grid and Gen-Set
- Multi- MPPT tracking function, up to 3 strings, fulfillvariousapplication conditions.
- Comprehensive centralized monitoring on MPPT module/utility/inverter parameters

High Reliability

- Full alarm and protectiondesign
- Advanced no-master-slave parallel technology (optional)
- Unique air tunnel design, increase cooling efficiency and operation lifetime
- · High quality components maximize service life



Smart Management

- RS485 Modbus communication, easy monitoring
- Intelligent BMS enable longer battery lifespan
- User-friendly-touch screen provides extensive monitor and control
- 8+6 dry contact communication signal

Technical Specification:

Items		SPO3320~3360-M075~150 SPO3380~33120-M150~					1150~225		
		Input Fea	tures - PV						
MPPT Voltage (Vdc)	420~850								
MPPT Tracking Precision (Max.) (%)	≥99.8%								
MPPT String		1/2 2/3							
MPPT Current (A)		75/150 150/225							
		Input Featu	res - Batter	у					
Rated Voltage (Vdc)		348							
Battery Type		Lead-acid or Li battery							
	Input I	eatures - AC	C (Charger	Option)					
RatedInput Voltage (Vac)		380/400/415 (L-L)							
Input Voltage Range (Vac)		±25%							
Phase		Three phase four line + 3φ4W + PE							
Input Frequency (Hz)		40~70							
AC Charge Current (A)		10~20 (settable)					10~30 (settable)		
		Output I	eatures						
Rated Power (kVA)	20	30	40	50	60	80	100	120	
Power Factor				0	.8				
Voltage (Vac)		380/400/415±1%							
Frequency (Hz)		Synchronize bypass input (Bypass Normal); 50/60 ±0.1% (Bypass abnormal)							
Wave Form		Sine wave, THD<2%(Linear load)							
Transfer Time (ms)	<1ms	(Switch from inv	verting mode to	o bypass mode)	; Oms (Switch f	rom bypass mo	ode to inverting	g mode)	
		Enviro	nment						
Operating Temperature		-5°C~40°C							
Storage Temperature		-20°C~+55°C							
Relative Humidity		0%~95% (no condensation)							
Noise (dB)				<(55				
		Stan	dard						
EMC		IEC 62040-2 CLASS C3							
Safety Standard		IEC 60905-1, IEC 62040-1-1, UL1778							
Design and Test		IEC 62040-3							
		Mechanic	al Feature						
Dimensions (H×W×D) (mm)		850×800×1600 1050×800×1800							
Weight (kg)	360	380	520	570	590	740	760	780	
		Other F	eatures						
Warning & Protection		INV fault, Battery low voltage, Overload, Short circuit, Over-temp, Bypass abnormal etc.							
Communication		Support MODBUS (RS485), Dry Contact Communication.							

 \bullet Specifications are subject to change without prior notice.

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