

1 IN 1 Microinverter

400W
500W



SPZ-M400 | SPZ-M500

1 Solar Panel supported by 1 microinverter

High-output microinverters harvest optimum power from high efficiency solar modules. Microinverters fit easily under solar panels with lower amperage wires, all with advanced reliability testing backed by a 25-year product warranty.

Key Features

Reliable

- Low-voltage operation below 60V (16-60V)
- IP67 degree of protection, adaptable to diverse climates

Efficient

- Higher output module-level MPPT, output power up to 500 VA
- 150% DC to AC ratio allows for solar oversizing producing higher output
- 20V low start-up voltage, starts earlier & shuts down later producing higher output

Intelligent

- Communication; Built-in WiFi or DMU
- Module-level monitoring through wireless App
- Remote software upgrade, parameter configuration, and alarm fault analysis

Simple

- Hook type design (quick-connect to panels)
- Fast installation with multiple length trunk cables
- Easy expansion system for a multiple array solar installation

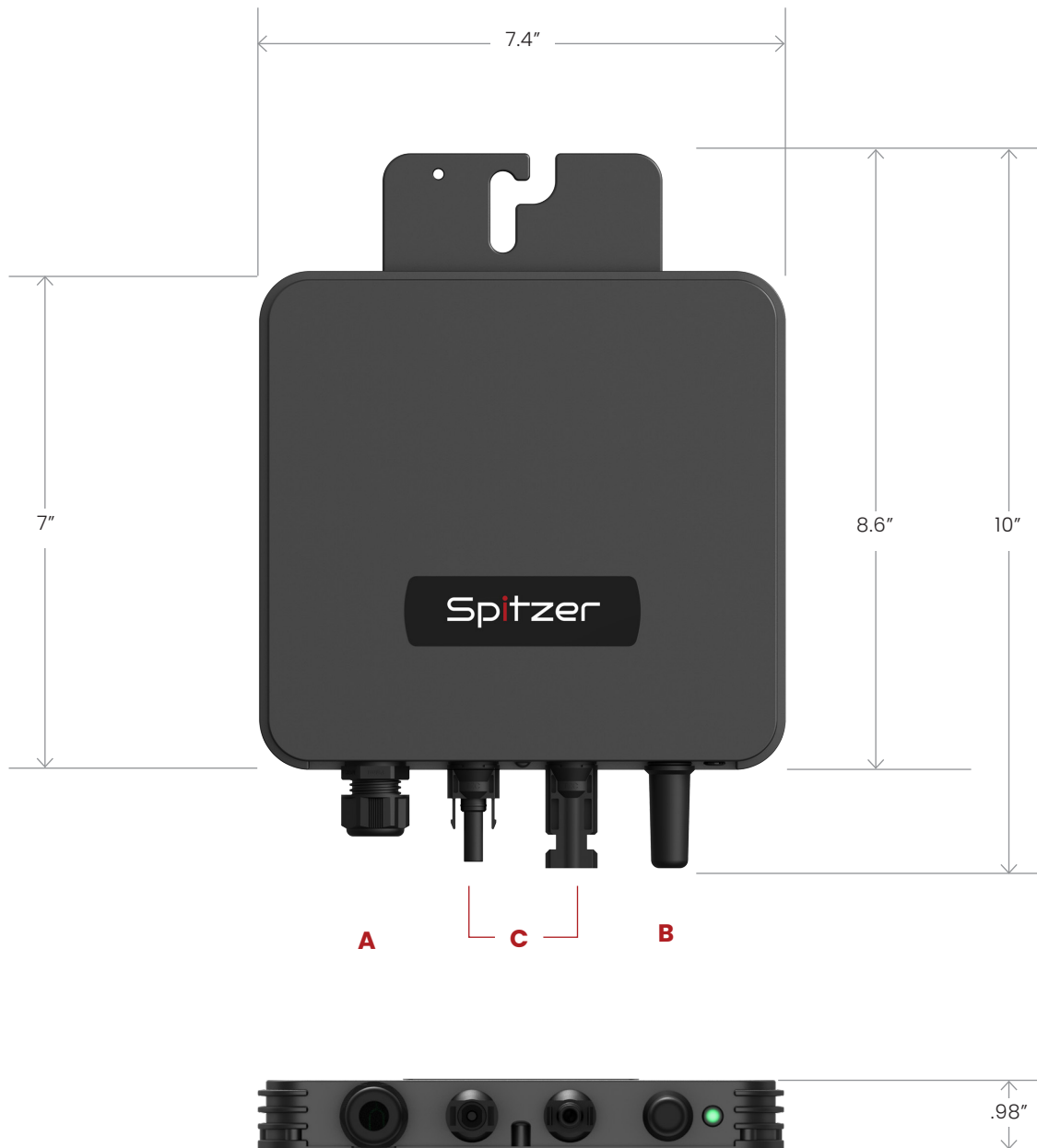
Technical Specifications

Spitzer Energy 1 in 1 Microinverter

Technical specification	SPZ-M400S / SPZ-M400W		SPZ-M500S / SPZ-M500W	
Input (DC)				
Commonly used module pairings (W)	320-600+		400-670+	
Operative Range (V)	16-60			
Max. Input DC voltage (V)	65			
Min. Start voltage (V)	20			
Max. continuous input DC current (A)	16			
Max. Short-circuit DC Input Current (A)	20			
Output (AC)				
Peak Output power (VA)	400		500	
Max. continuous output power (VA)	360		475	
Max. continuous output current (A)	1.5	1.7	2	2.3
Nominal (L-L) voltage (V)	240/211-264	208/183-228	240/211-264	208/183-228
Nominal Frequency (Hz)	60			
Extended frequency range	55-65			
Power factor setting	>0.99/0.8 leading...0.8lagging			
Total harmonic distortion	<3%			
Max. Units Per 10 AWG Branch	21	18	16	14
Efficiency				
Peak Efficiency	96.70%			
Nominal MPPT Efficiency	99.80%			
Night-time power consumption (mW)	<30			
General data				
Ambient Temperature Range (°F)	-40°F to 149°F			
Dimension (H*W*D)	7.4" x 7" x .98"			
Degree of Protection	Outdoor-IP67 (NEMA6)			
Cooling	Natural Cooling - No fans			
Weight (lb)	3.75			
Features				
Communication	Sub-1G, Built in WiFi			
Type of Isolation	High frequency transformers, Galvanically isolated			
Warranty	12 years standard, 25 years optional			
Protection				
Input Reverse Connection Protection	YES			
Output Overcurrent Protection	YES			
Output Overvoltage Protection	YES			
Anti-islanding Protection	YES			
Surge Protection	Type II			

Dimensions

Spitzer Energy 1 in 1 Microinverter



A: AC Branch Connector | **B:** Antenna | **C:** DC Terminal

Data Management Unit



Easy to install

Plug-and-play, without additional wiring

Safe and reliable

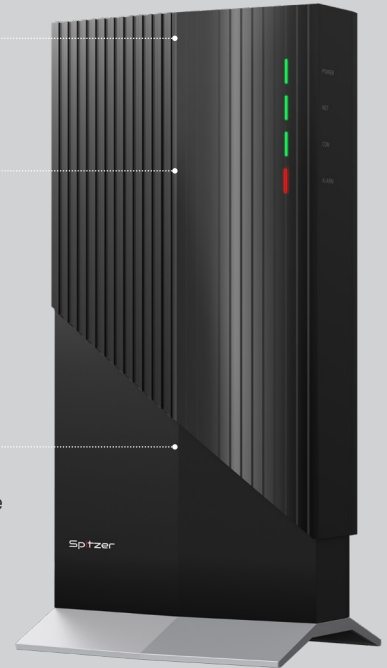
Data transmission encryption ensuring data security

Local storage, breakpoint, resuming upload without data loss supportable

Intelligent O&M

Ethernet, WiFi, 4G multiple communications supportable

Remote software upgrade, parameter configuration, alarm fault analysis supportable



SPITZER Data Management Unit

4G / WiFi

Technical specification	SPZ-DMU-W	SPZ-DMU-4G
Communication to Microinverter		
Signal	Sub-1G	Sub-1G
Monitoring Data Limit From Solar Panels	400	400
Communication to SPZ Cloud		
Ethernet	RJ45x1, 100Mbps	RJ45x1, 100Mbps
Wireless	WiFi:802.11b/g.n	4G:TDD-LTE,FDD-LTE 3G:SCDMA 2G:GSM/GPRS
Data Acquisition Interval	Default: 5 mins (1-15 mins Configurable)	
Power Supply (Adapter)		
Type	External adapter	
Adapter Input Voltage(V)/ frequency (Hz)	100 - 240AC/50-60	
Adapter Output Voltage(V)/ frequency (Hz)	12V / 1A	
Power Consumption (W)	1.5	2.5
General data		
Ambient Temperature Range (°F)	-4°F to 149°F	
Dimension (H*W*D)	4.17" x 8.5" x 3.11" (with base)	
Weight (lb)	.71 lb	
Cooling	Natural Cooling	
Degree of Protection	IP20	
Installation Method	Desktop mounting / Wall mounting	