

### 4<sup>IN</sup>1 Microinverter

1800W  
2000W



### SPZ-M1800 | SPZ-M2000

#### 4 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 2000 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

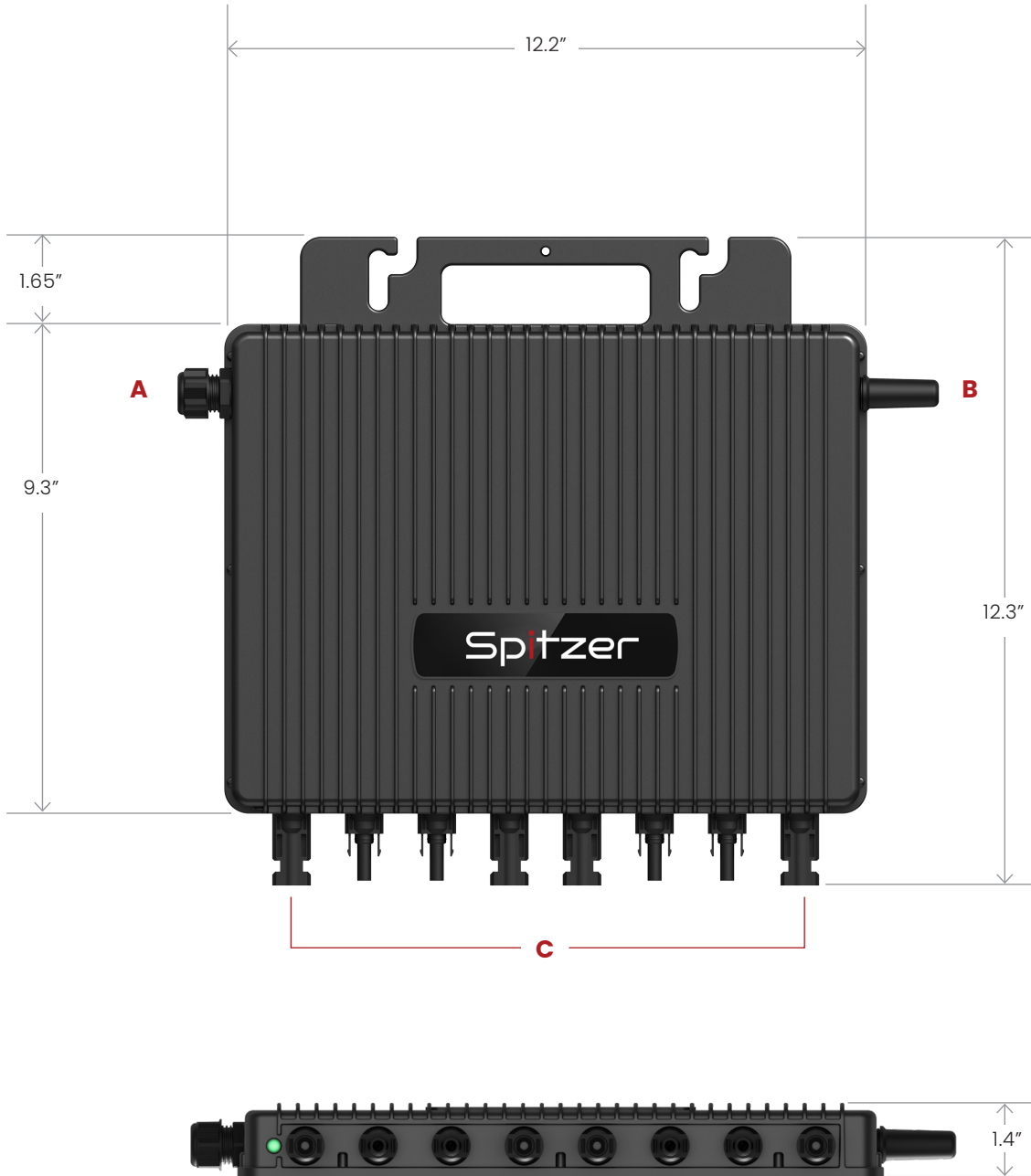
## Technical Specifications

### Spitzer Energy 4 in 1 Microinverter

Technical specification	SPZ-M1800S / SPZ-M1800W		SPZ-M2000S / SPZ-M2000W	
<b>Input (DC)</b>				
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)	4*16			
Max. Short-circuit DC Input Current (A)	4*20			
<b>Output (AC)</b>				
Peak Output power (VA)	1,800		2,000	
Max. continuous output power (VA)	1,660		1,920	
Max. continuous output current (A)	6.9	8	8	9.2
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	4	4	4	3
<b>Efficiency</b>				
Peak Efficiency	96.70%			
Nominal MPPT Efficiency	99.80%			
Night-time power consumption (mW)	<30			
<b>General data</b>				
Ambient Temperature Range (°F)	-40°F to 149°F			
Dimension (H*W*D)	12.2" x 9.29" x 1.4"			
Degree of Protection	Outdoor-IP67 (NEMA6)			
Cooling	Natural Cooling - No fans			
Weight (lb)	11			
<b>Features</b>				
Communication	Sub-1G, Built in WiFi			
Type of Isolation	High frequency transformers, Galvanically isolated			
Warranty	12 years standard, 25 years optional			
<b>Protection</b>				
Input Reverse Connection Protection	YES			
Output Overcurrent Protection	YES			
Output Overvoltage Protection	YES			
Anti-islanding Protection	YES			
Surge Protection	Type II			

Dimensions

Spitzer Energy 4 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

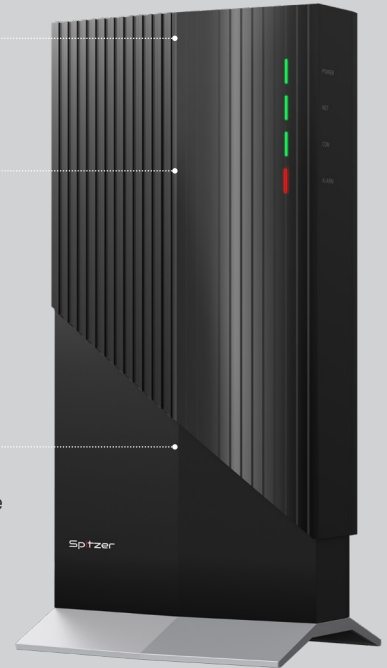
Data transmission encryption ensuring data security

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
<b>Communication to Microinverter</b>		
Signal	Sub-1G	Sub-1G
Monitoring Data Limit From Solar Panels	400	400
<b>Communication to SPZ Cloud</b>		
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)	
<b>Power Supply (Adapter)</b>		
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
<b>General data</b>		
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	