



Product Presentation

SPIRIT VS Radiant Inverter



Radiant Series



SPIRIT Series



Models & Capacity

Radiant Series

- **MC1200VA** 1200VA/720W
- **MC2400VA** 2400VA/1440W

SPIRIT Series

- **Spirit 2000** 2000VA/2000W
- **Spirit Plus 2001** 2000VA/2000W, **MPPT SCC**
- **Spirit Plus 3001** 3000VA/3000W, **MPPT SCC**
- **Spirit Plus 5001** 5000VA/5000W, **MPPT SCC**



Similarities

- Both have two charging current modes
- Both have UPS and Normal Inverter modes
- Both are Wall-Mount Option.
- Both are Transformer-Less.
- Both have Magnetic Type Circuit Breaker

Radiant Series

- Power Factor is 0.6
- No Dry Contact
- Normal Battery Connector
- Normal LCD Display
- No RS232 Connector for Communication

SPIRIT Series

- Power Factor is 1.0
- Dry Contact Available
- Battery Special Mistake-Proof Connector
- Pictorial Display
- RS232 Connector for Communication



Back View



SPIRIT Series



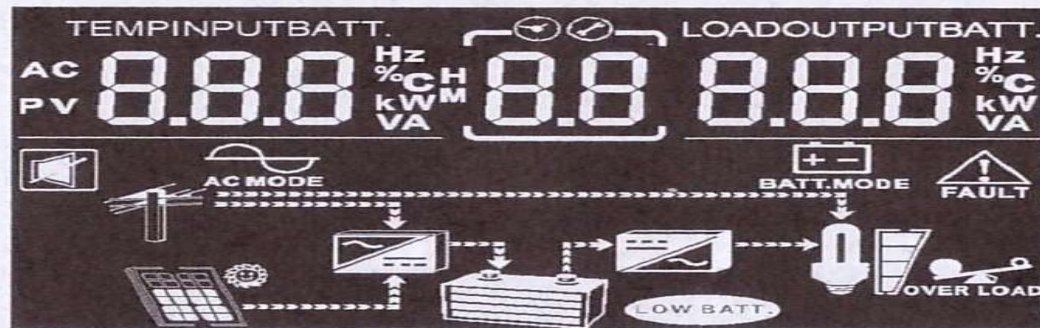
Radiant Series



SPIRIT Plus Series

Mercury™ Display settings in SPIRIT PLUS Inverters

LCD Display Icons



Icon	Function description
Input Source Information	
AC	Indicates the AC input.
PV	Indicates the PV input
INPUT BATT. 8.8.8 Hz % C kW M VA	Indicate input voltage, input frequency, PV voltage, charger current (if PV in charging for 3K models), charger power (only for MPPT models), battery voltage.

Load Information				
 OVER LOAD	Indicates overload.			
	Indicates the load level by 0-24%, 25-50%, 50-74% and 75-100%.			
	0%~24%	25%~50%	50%~74%	75%~100%

Mode Operation Information



Mercury™

Display settings in SPIRIT PLUS Inverters



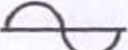




Configuration Program and Fault Information	
	Indicates the setting programs.
	Indicates the warning and fault codes.
Output Information	
LOAD OUTPUT BATT. 	Indicate output voltage, output frequency, load percent, load in VA, load in Watt and discharging current.
Battery Information	
	Indicates battery level by 0-24%, 25-49%, 50-74% and 75-100% in battery mode and charging status in line mode.
In AC mode, it will present battery charging status.	

Status	Battery voltage	LCD Display
Constant Current mode / Constant Voltage mode	<2V/cell	4 Bars will flash in turns.
	2 ~ 2.083V/cell	Bottom bar will be on and the other three bars will flash in turns.
	2,083 ~ 2.167V/cell	Bottom two bars will be on and the other two bars will flash in turns.
	>2.167V/cell	Bottom three bars will be on and the top bar will flash.
Floating mode. Batteries are fully charged.		4 bars will be on.

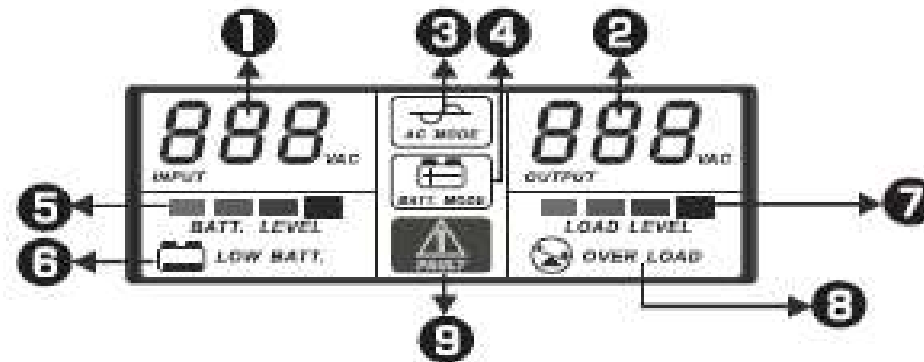


Mercury™

Display settings in SPIRIT PLUS Inverters

	Indicates unit connects to the mains.
	Indicates unit connects to the PV panel.
 AC MODE	Indicates load is supplied by utility power.
 BATT.MODE	Indicates load is supplied by battery power or pv power.
	Indicates the utility charger circuit is working.
	Indicates the DC/AC inverter circuit is working.
Mute Operation	
	Indicates unit alarm is disabled.

LCD



1. Input voltage
2. Output voltage
3. AC mode (machine in line mode, this LCD symbol lights)
4. Battery mode (when AC input voltage is abnormal, this LCD symbol lights)
5. Battery level (Battery capability)
6. Low battery (when battery voltage is low, this LCD symbol flashes)
7. Load level (Load percent)
8. Over load (when there is output over loading, this LCD symbol will flash)
9. Fault mode (this LCD symbol will light when machine in fault mode, such as output shorted, over load)



FOR SPIRIT SERIES PROGRAMMING

REFER PROGRAMMING MANUAL



The End