

# WIRELESS DC BUS MONITOR

WDCM-300

## Data Sheet

The DC Bus monitor measures both DC and AC ripple voltage across the whole battery bank.

The DC and the AC ripple voltage measurements will give us an early warning if the battery charger starts to operate out of spec.

Overcharged or undercharged battery banks can reduce the overall battery life and put the battery backup system in danger. Excessive AC ripple voltage will reduce the battery life and "inject" unwanted noise into the system. In many cases this causes attached equipment failure.

The DC Bus monitor measures very high frequency AC ripple voltage so that nothing would go unnoticed.



## OPERATING SPECIFICATIONS ARE LISTED BELOW

WDCM-300

### DC Voltage Measurement

Range: 30-650VDC  
Resolution: 0.1 VDC  
Accuracy: 1% or better

### AC (TrueRMS) Voltage Measurement

Range: 0-30VAC  
Resolution: 1mVAC  
Accuracy: 1% or better  
Linearity: 0.1% or better

### Power Supply

Powered directly from DC bus (48-650VDC)

### Wireless Communication:

Frequency ISM Band - 2.4GHz DSSS  
Range indoor >100m  
Range outdoor >600m  
RF approvals FCC, ETSI

### Operating Temp.:

-4°F to 158°F (-20°C to 70°C)

### Humidity:

10-99%, non-condensing

### Storage Temp:

-40°F to 176°F (-40°C to 80°C)

### Enclosure:

ABS

### Dimensions & Weight:

2.5" x 1.6" x 0.5"  
(64mm x 41mm x 13mm)  
1.2oz (35g)

### Key Attribute

Passive charge balancing is a unique feature that the Wireless DC Bus Monitor provides in conjunction with the Wireless Battery Monitor. All batteries of the UPS can have equal charge regardless of the fluctuations of the charger output which is imperative for maintaining their health and keeping the UPS reliable.