



12, 18K Btu/h

**SUPER-HIGH  
EFFICIENCY  
UP TO 32 SEER**



**56 R410A System**

# Solar DC Inverter Mini System

## PV Powered/Boosted Mini Split Wall Mount-(56)

- \* Optimized unique management on city AC and PV panel DC power
- \* Powered with PV panel DC power, backed up by city power
- \* Advanced temperature comfort and safety control
- \* Can be integrated to work with existing solar panels, if parameters matched
- \* Minimized city power usage, as low as 30W
- \* R410A refrigerant and environment friendly materials, green products
- \* New solar panel installation eligible for Federal tax credit and/or State and/or utility company's rebate/incentive programs



*YMGI, Engineered Comfort Products for A Sustainable and Efficient Green World!*

### APPLICATIONS:

- \* BARS
- \* HOTELS
- \* HOMES
- \* SUNROOMS
- \* CONDOS
- \* RESORTS
- \* FACTORIES
- \* NURSING HOMES
- \* APARTMENTS
- \* OFFICES
- \* RESTAURANTS
- \* MOBILE HOMES

### FEATURES:

- \* DC INVERTER & SOLAR POWER
- \* ADAPTIVE SMART CONTROL
- \* HIGH EFFICIENCY
- \* OPTIMIZED SYSTEM DESIGN
- \* QUICK COOLING AND HEATING
- \* INDEPENDENT DEHUMIDIFICATION
- \* INTELLIGENT DEFROSTING
- \* QUIET OPERATION
- \* SOFT START
- \* LOW VOLTAGE START
- \* STABLE OPERATION AT LOW FREQUENCY
- \* RANDOM PITCH CROSS FLOW FAN WHEEL
- \* WIDE ANGLE AIR DISTRIBUTION
- \* LONG AIR THROW
- \* WASHABLE FILTER
- \* DRY ANTI-MOLD COIL
- \* REMOTE CONTROL
- \* 12 OR 24-HOUR TIMER
- \* MEMORIES & AUTO RESTART
- \* PRE-HEATING PRIOR TO HEATING START
- \* OVERCORRECT & THERMAL PROTECTION
- \* SLEEP MODE
- \* ENHANCED COPPER/COIL
- \* PRE-CHARGED
- \* DIGITAL DISPLAY AND STYLISH LOOKING
- \* EASY OPERATION
- \* EASY DIAGNOSIS & TROUBLE-SHOOTING
- \* THOROUGHLY TESTED
- \* RELIABLE QUALITY

### OPTIONAL PARTS & ACCESSORIES:

- \* ADVANCED HEALTHY KIT (HEPA/Enzyme/Cold Catalyst Filter, Anion Generator)
- \* MC4 CABLE
- \* REMOTE CONTROL LOCK
- \* BRACKETS (FOR OUTDOOR UNIT)
- \* FOOT RISERS (FOR OUTDOOR UNIT)
- \* COPPER/WIRE/ACC.SET (ACC. KIT)
- \* LINESSET COVERS
- \* WINTER WIND BAFFLE (HELP WORK BETTER IN COLD WEATHER)



SOLAR PANEL



SOLAR PANEL MC4 CABLE CONNECTOR (MALE & FEMALE)



Foot Riser for Outdoor Unit



Bracket for Outdoor Unit



Copper Lineset Covers



Accessory Kit (Copper/Wiring Set, Piping Wrap, Wall Sleeve, Putty, Drain Hose)

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**WORK IN ALL TIME:  
FOUR SEASONS, DAY & NIGHT  
SUNNY OR RAINY DAYS, CLEAR OR CLOUDY HOURS**

12,000, 18,000, Btu/h  
Cooling Only, Heat Pump



| Models   | System                         |   | WMMS-12KS-V2B(56)                | WMMS-18KS-V2B(56)   |
|--|--------------------------------|---|----------------------------------|---------------------|
|  | Indoor Unit                    |   | WMMS-12ES-V2B(56)                | WMMS-18ES-V2B(56)   |
|  | Outdoor Unit                   |   | WMMS-12CS-V2B(56)                | WMMS-18CS-V2B(56)   |
|  | Solar Panel                    |   | WMMS-12PS-V2B(56)                | WMMS-18PS-V2B(56)   |
| Cooling  |                                | Btu/h(L/S/H)                                    | 4500/12000/14000                 | 6000/18000/22350    |
| Heating  |                                | Btu/h(L/S/H)                                    | 3250/13000/14500                 | 4100/21000/24000    |
| MCA  |                                | AMP   | 9.6                              | 13.2                |
| HVAC CIRCUIT BREAKER   |                                | AMP   | 20                               | 30                  |
| EER/COP  | Cooling                        | Btu / h·W                                       | 15.2                             | 15.1                |
|  | Heating                        | W/W   | 4.2                              | 4.1                 |
| SEER   | Btu / h·W                      |   | UP to 32                         | UP to 32            |
| Airflow  | Indoor Unit                    | CFM (H/M/L)                                     | 300                              | 500                 |
| Noise  | Indoor Unit                    | dB(A) (H/M/L)                                   | 36/32/26                         | 44/40/35            |
|  | Outdoor Unit                   | dB(A)   | 52                               | 54                  |
| <b>City Power Consumption, Without Any Solar Panel Installed</b>   |                                |   |                                  |                     |
| Power Supply   |                                | V/Ph/Hz   | 208-230/1/60                     | 208-230/1/60        |
| Power Input  | Cooling                        | W(L/S/H)  | 120/1000/1450                    | 300/1500/2500       |
|  | Heating                        | W(L/S/H)  | 220/1200/1500                    | 335/1600/2550       |
| <b>City Power Consumption, with Solar Panel Installed / tested at STC Solar Irradiance of 1000 W/m<sup>2</sup></b> |                                |   |                                  |                     |
| Power Input  | Cooling                        | W (L/S/H)                                       | 30 / 200 / 450                   | 30 / 400 / 650      |
|  | Heating                        | W (L/S/H)                                       | 30 / 300 / 500                   | 30 / 500 / 700      |
| <b>Accepted Solar Panel - Power Data Ranges (All Shall be of Same Type and Same Model)</b>                         |                                |   |                                  |                     |
| Open Circuit Voltage Voc (All PV Panels in Series)   |                                | V   | 22~165                           | 22~165              |
| Short Circuit Current Isc (Per Panel)  |                                | A   | 5~9                              | 5~9                 |
| Nominal Power Output (STC Condition) Pmax (Per Panel)  |                                | W   | 200 + (to 400)                   | 200 + (to 400)      |
| Power Output Tolerances (Per Panel)  |                                | W   | -0 / +3 to +5                    | -0 / +3 to +5       |
| Allowed PV Panel   |                                | W   | Mono-crystalline or Poly-silicon |                     |
| Allowed PV Panel Qty. in Series  |                                | Pieces  | 1 to 5                           | 1 to 5              |
| Recommended PV Panel Qty.  |                                | Southern CA-FL / Northern CA-NC / OR-NY / WA-NE | 1-3 / 2-4 / 3-5 / 4-5            | 2-4 / 3-5 / 4-5 / 5 |
| <b>Dimensions</b>  |                                |   |                                  |                     |
| Net Dimensions   | Indoor                         | W x H x D                                       | 33.3 x 10.8 x 7.1                | 37.0 x 11.7 x 7.9   |
|  | Outdoor                        | W x H x D                                       | 33.4 x 21.3 x 12.6               | 35.0 x 27.6 x 13.4  |
|  | Solar Panel                    | W x H x D                                       | 58.3x39.1x1.4                    |                     |
| Gross Dimensions   | Indoor                         | W x H x D                                       | 36.0 x 14.0 x 10.0               | 39.8 x 15.0 x 11.2  |
|  | Outdoor                        | W x H x D                                       | 34.6 x 22.8 x 14.2               | 40.6 x 28.9 x 18.1  |
|  | Solar Panel                    | W x H x D                                       | 62x2x43.1x3.9                    |                     |
| <b>Weight</b>  |                                |   |                                  |                     |
| Net Weight   | Indoor / Outdoor / Solar Panel | LBs   | 24.2 / 88.1 / 37.0               | 28.7 / 110.1 / 37.0 |
| Gross Weight   | Indoor / Outdoor / Solar Panel | LBs   | 30.8 / 96.9 / 52.9               | 37.5 / 121.1 / 52.9 |
| <b>Loading Capacity</b>  |                                |   |                                  |                     |
| 20'GP / 40'GP / 40'HQ  |                                | Sets  | 116 / 235 / 270                  | 62 / 125 / 145      |

- 1) Performance without solar panel being installed is rated for matched system at standard conditions-cooling ID 80/67F, OD 95F; heating ID 70/60F, OD 47/43F. Performance varies upon weather changes.
- 2) Performance with solar panel being installed is rated at same ID conditions but OD STC conditions of 1000W/m<sup>2</sup> irradiance, 25°C (77°F) cell temperature. AM 1.5g spectrum according to EN 60904.3.
- 3) Watch unit operation during extreme weather conditions in summer and winter. After the unit is used for quite a while in these weather, unit may step into protection mode and stay idle.
- 4) Heating capacity and efficiency decrease, as outdoor temperature drops. Cooling capacity and efficiency drops, as outdoor temperature rises.

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