Macsun Solar Energy Technology Co.,Limited
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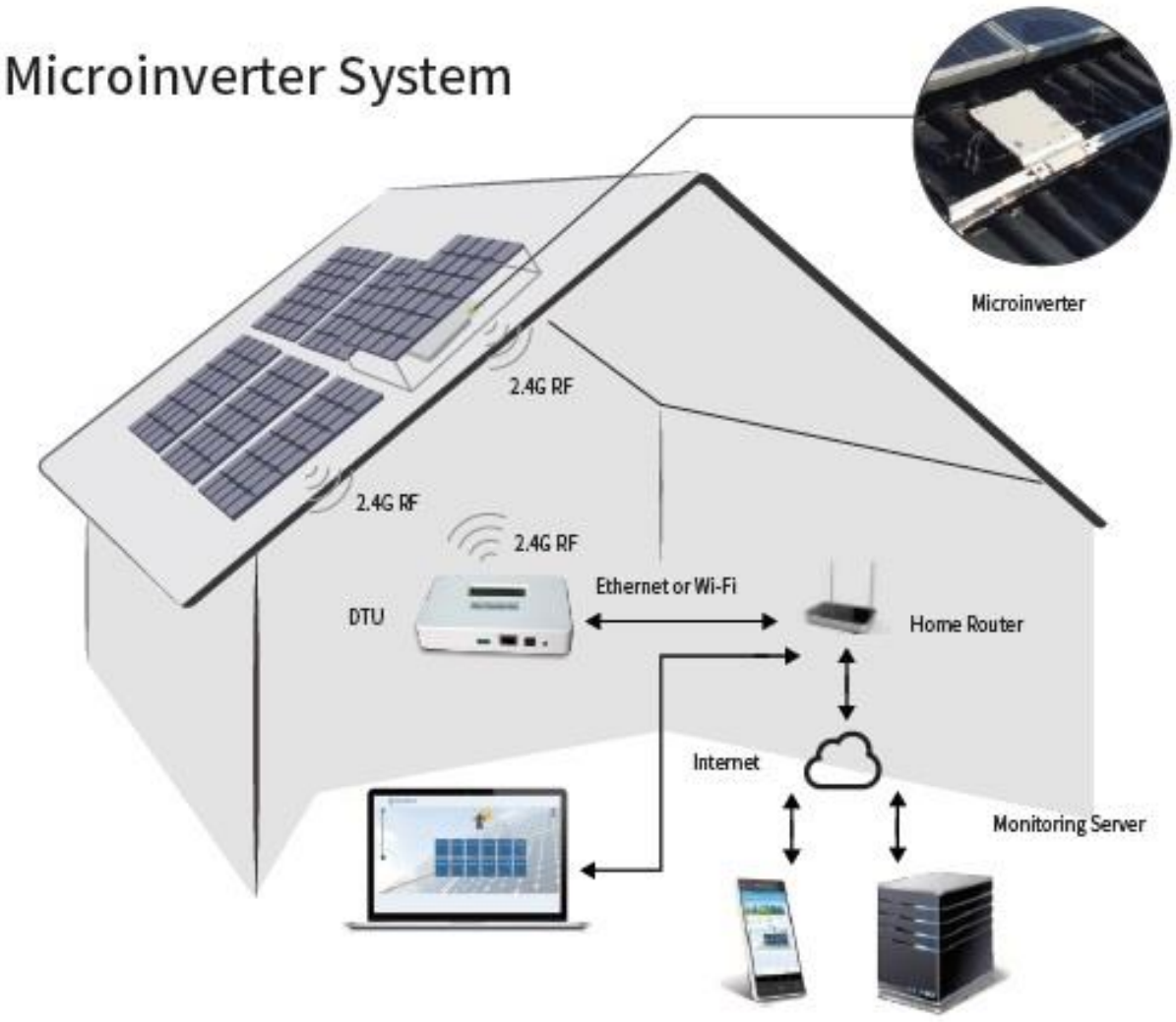
Macsun Solar Microinverter



Model MS-MSI250

Input data(DC)

Recommended input power (W) 200~310
MPPT voltage range (V) 27~48
Operating voltage range (V) 16~60
Maximum input voltage (V) 60
Maximum input current (A) 10.5

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Output Data (AC)

Rated output power (W) 250
Rated output current (A) 1.09@230V a.c, 1.04@240V a.c, 1.20@208V a.c,
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250 1
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 14@230V a.c or 240V a.c, 13@208V a.c

Efficiency

Peak inverter efficiency 96.7%
CEC weighted efficiency 96.5%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 178×153×28
Weight (kg) 1.98
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI300

Input data(DC)

Recommended input power (W) 200~380
MPPT voltage range (V) 32~48
Operating voltage range (V) 16~60
Maximum input voltage (V) 60
Maximum input current (A) 10.5

Output Data (AC)

Rated output power (W) 300

Rated output current (A) 1.30@230V a.c, 1.25@240V a.c, 1.44@208V a.c,
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250 1
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 12@230V a.c or 240V a.c, 11@208V a.c

Efficiency

Peak inverter efficiency 96.7%
CEC weighted efficiency 96.5%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 178×153×28
Weight (kg) 1.98
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI500

Input data(DC)

Recommended input power (W) 200~310,200~310
MPPT voltage range (V) 27~48, 27~48
Operating voltage range (V) 16~60 , 16~60
Maximum input voltage (V) 60 , 60
Maximum input current (A) 10.5, 10.5

Output Data (AC)

Rated output power (W) 500
Rated output current (A) 2.17@230V a.c, 2.08@240V a.c, 2.40@208V a.c,
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250 1
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1

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Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 7@230V a.c or 240V a.c, 6@208V a.c

Efficiency

Peak inverter efficiency 96.7%
CEC weighted efficiency 96.5%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 250×170×28
Weight (kg) 3.0
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI600

Input data(DC)

Recommended input power (W) 200~380 , 200~380
MPPT voltage range (V) 29~48 , 29~48
Operating voltage range (V) 16~60 , 16~60
Maximum input voltage (V) 60 , 60
Maximum input current (A) 11.5, 11.5

Output Data (AC)

Rated output power (W) 600
Rated output current (A) 2.61@230V a.c, 2.50@240V a.c, 2.88@208V a.c,
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250 1
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 6@230V a.c or 240V a.c, 5@208V a.c

Efficiency

Peak inverter efficiency 96.7%
CEC weighted efficiency 96.5%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 250×170×28
Weight (kg) 3.0
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI700

Input data(DC)

Recommended input power (W) 250~400 , 250~400
MPPT voltage range (V) 33~48 , 33~48
Operating voltage range (V) 16~60 , 16~60
Maximum input voltage (V) 60 , 60
Maximum input current (A) 11.5, 11.5

Output Data (AC)

Rated output power (W) 700
Rated output current (A) 3.04@230V a.c, 2.91@240V a.c, 3.36@208V a.c
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 5@230V a.c or 240V a.c, 4@208V a.c

Efficiency

Peak inverter efficiency 96.7%

CEC weighted efficiency 96.5%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 250×170×28
Weight (kg) 3.0
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI1000

Input data(DC)

Recommended input power (W) 200~310
MPPT voltage range (V) 27~48
Operating voltage range (V) 16~60
Maximum input voltage (V) 60
Maximum input current (A) 10.5

Output Data (AC)

Rated output power (W) 1000
Rated output current (A) 4.35@230V a.c, 4.16@240V a.c, 4.81@208V a.c
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 4@230V a.c or 240V a.c, 3@208V a.c

Efficiency

Peak inverter efficiency 96.34%
CEC weighted efficiency 96.0%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 280 176 33
Weight (kg) 3.75
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Model MS-MSI1200

Input data(DC)

Recommended input power (W) 200~380
MPPT voltage range (V) 32~48
Operating voltage range (V) 16~60
Maximum input voltage (V) 60
Maximum input current (A) 10.5

Output Data (AC)

Rated output power (W) 1200
Rated output current (A) 5.22@230V a.c, 5@240V a.c, 5.76@208V a.c
Nominal output voltage/range (V) 230/180-275 1, 240/211-264 1, 208/183-250
Nominal frequency/range (Hz) 50/45-55 1, 60/59.3-60.5 1
Power factor >0.99
Output current harmonic distortion <3%
Maximum Units per 20A Branch 3@230V a.c or 240V a.c, 3@208V a.c

Efficiency

Peak inverter efficiency 96.34%
CEC weighted efficiency 96.0%
Nominal MPPT efficiency 99.8%
Night time power consumption (mW) <50

Environmental & Mechanical Data

Ambient temperature range (℃) -40 ~ +65

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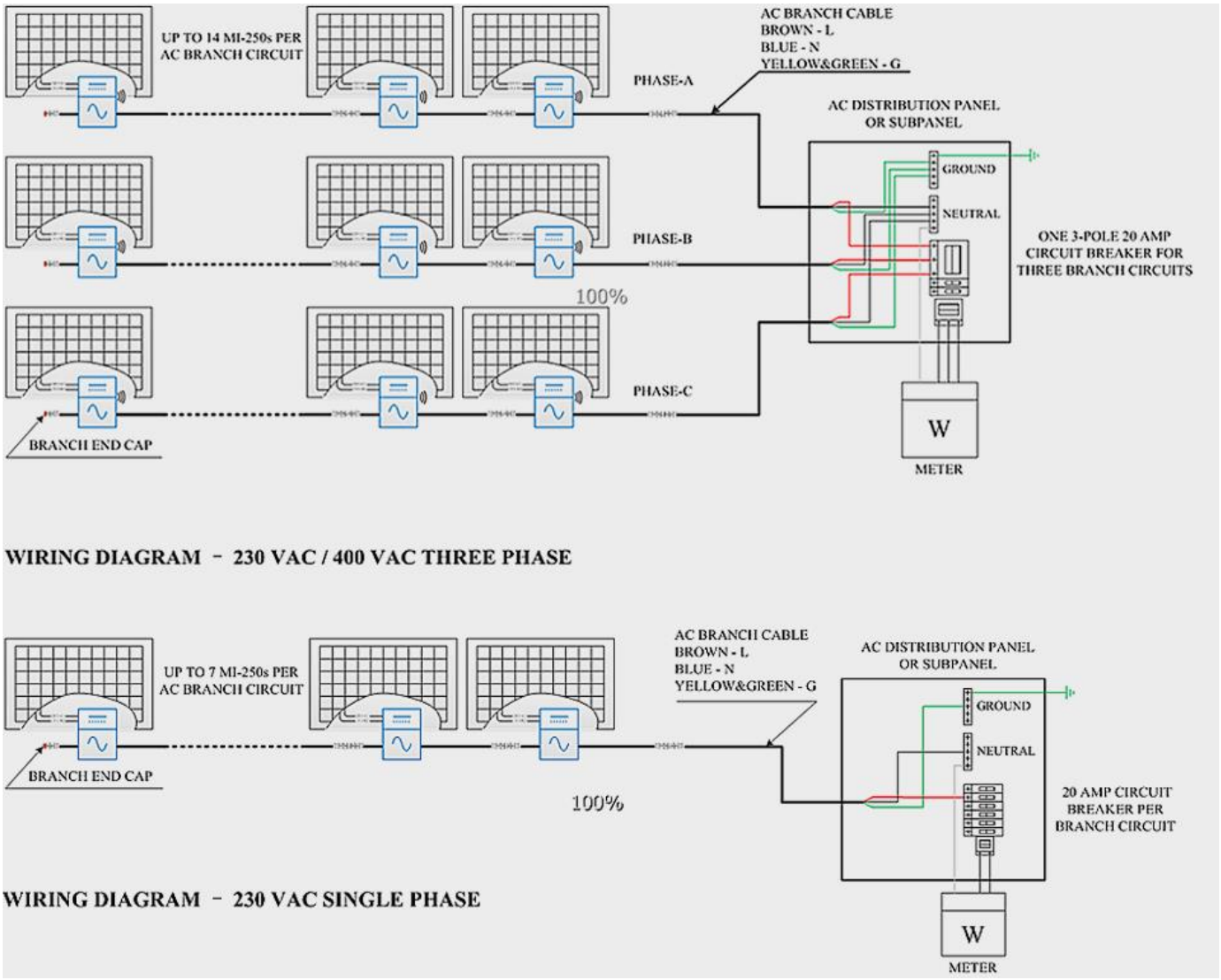
Operating temperature range (℃) -40 ~ +85
Dimensions (W×H×D mm) 280x176x33
Weight (kg) 3.75
Enclosure rating IP67
Cooling Natural convection – No fans

Features

Communication Wireless
Design Life >25 Years
1 Volatage and frequency ranges can be extended beyond nominal if required by the utility

Wiring diagrams for 4 in 1 microinverter



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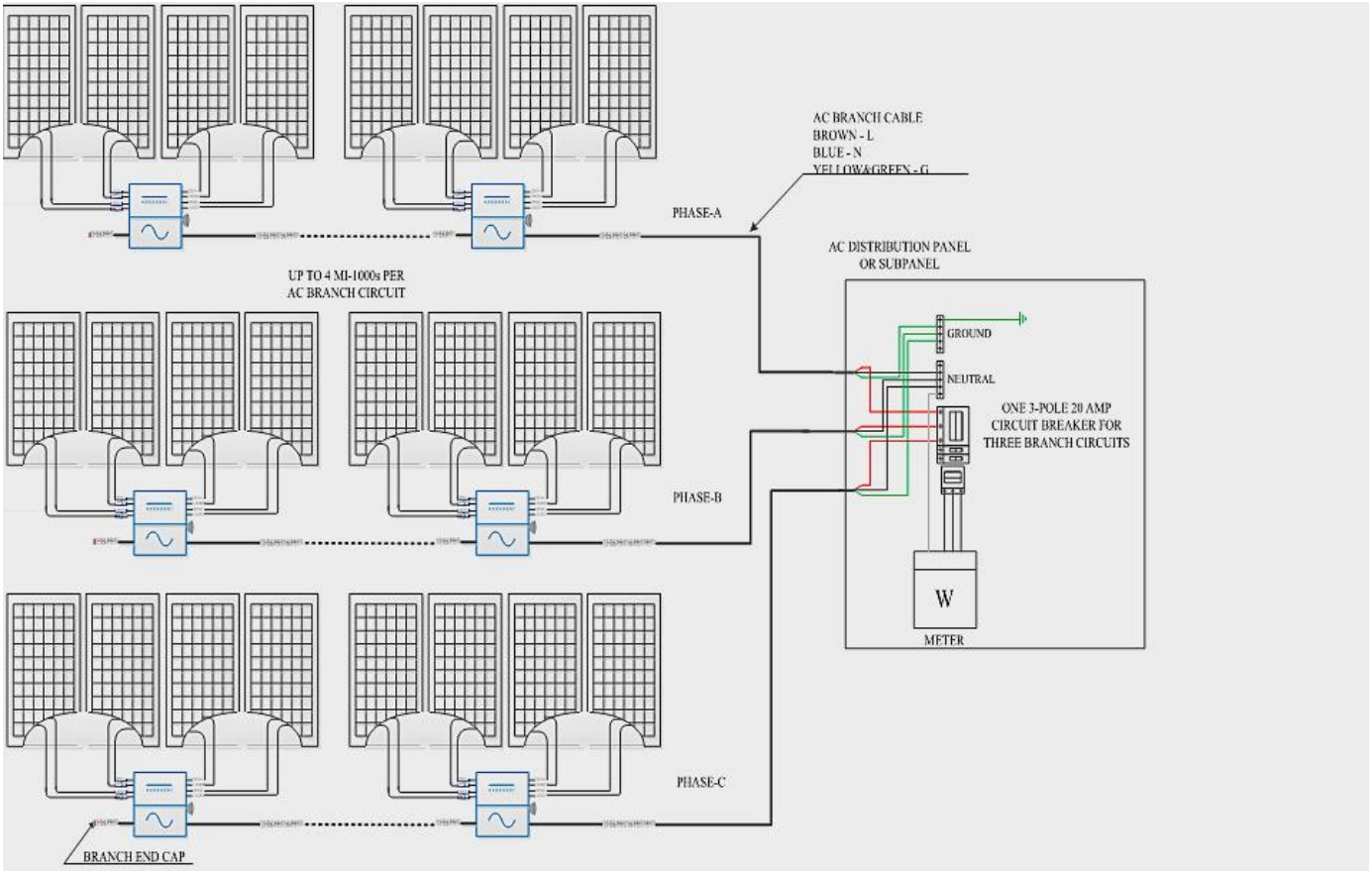
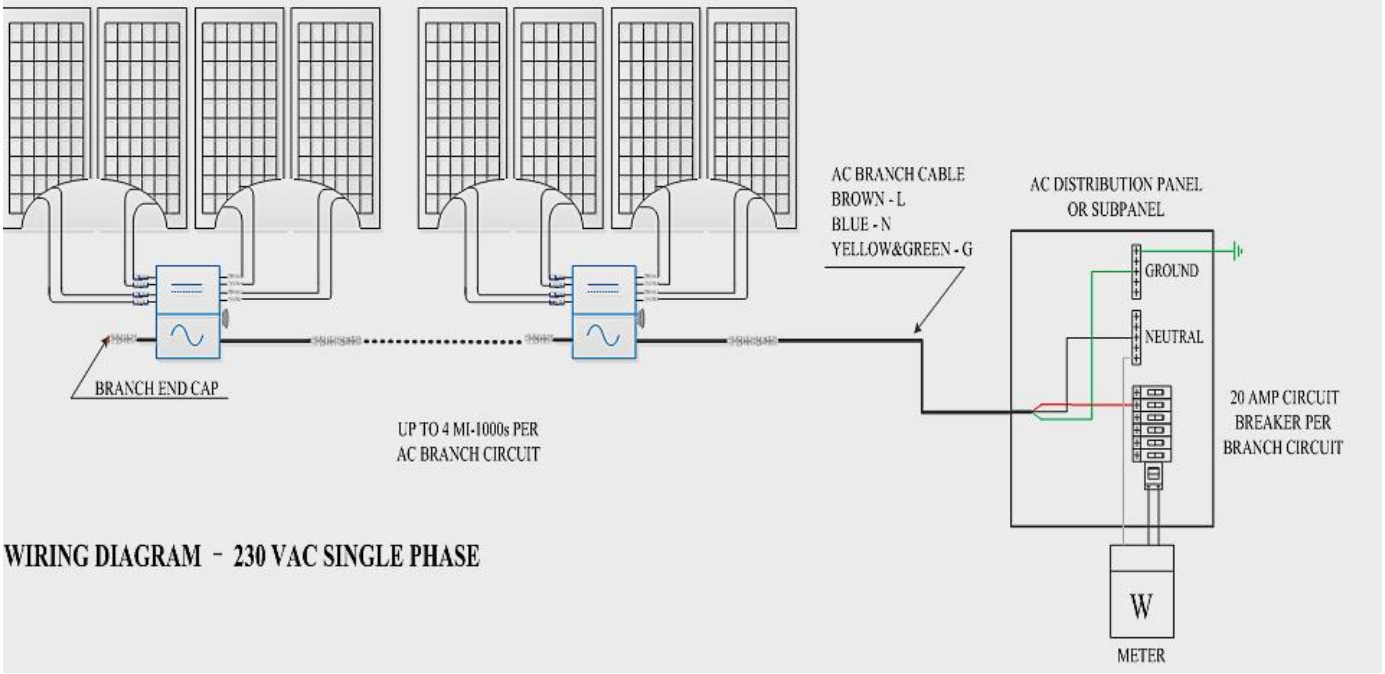


WIRING DIAGRAM - 230 VAC / 400 VAC THREE PHASE



WIRING DIAGRAM - 230 VAC SINGLE PHASE

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Microinverter Accessories

Macsun Solar offers a range of accessories such as DC Extension and AC end cable, connectors etc. to make your job easier and simpler.

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Projects

Hangzhou East Software Park Commercial
Solar System 1.5kW

Zhejiang University Commercial
Solar System 70kW

Hangkai Group Industrial
Solar Systems 200kW

Quzhou Qujiang District Nieli Town 500 Residential
Solar Systems 500 x 3kW

Ningbo Subway Line 2 Commercial
Solar System 20kW

Australia Residential
Solar System 3kW

Shanghai Kangshun Industrial
Solar Systems 1.2MW

Hangzhou Xie' an Zijun Commercial
Solar System 22kW

Sri Lanka Residential
Solar System 5kW

Hangzhou Energy Institute Commercial
Solar System 10kW

Quzhou Shilang Residential
Solar System 5kW

Hangzhou Hejiayuan Residential
Solar System 6kW

Quzhou Kecheng District 63 Residential
Solar Systems 343kW

Quzhou Villa Residential
Solar System 2kW