

PV INVERTER SERIES

PV5000VE

FEATURES

- Transformerless operation for highest efficiency: 97.9%
- 2 MPPT channels, new generation technology
- Integrated RS-485/RS-232 serial communication
- Advanced DSP Control Technology
- Comply with CE, VDE0126-1-1, EN50438, IEC-62109



Model No.	PV5000VE
Input Data(DC)	
Max. DC Power	4800W
Max. DC Voltage	600V
Start Voltage	150V
PV Voltage Range	100V-600V
MPP Work Voltage Range	120V-600V
Max. Input Current Of Tracker	2*15A
Number Of Independent MPP Trackers	2
Output (AC)	
Normal AC Output Power	4600W
Max. AC Output	4600W
Max. Output Current	23A
AC Nominal Voltage; Range	220V/230V/240V; 180Vac-280Vac
AC Grid Frequency	50/60Hz±5 Hz
Power Factor	> 0.99
THDI	< 3%
AC Connection	Single Phase
Efficiency	
Max. Efficiency	97.9 %
Euro. Efficiency	97.4 %
Self-Consumption (Night)	< 0.5W
General Data	
Dimensions (W*H*D) (mm)	360*510*188
Weight	24KG
Operation Temperature Range	-25°C ~ +60°C
Topology	Transformerless
Cooling Concept	Natural
Protection Rating	IP65
Others	
DC Connection	H4/MC4 (opt)
AC Connection	Screw Terminal
Display	LCD
Interfaces	RS232/RS485
Warranty	5 Years
Certificates	CE, VDE0126-1-1, EN50438, IEC-62109

PV INVERTER SERIES

PV10000VE/PV20000VE

FEATURES

- DC Input Voltage Up To 1000V
- Maximun Efficiency of 98%
- Internal DC Switch
- Multi MPP Controller
- Advanced DSP Contrpl Technology
- Comply with VDE-AR-N4105, CE, VDE 0126-1-1, IEC 62109, EN50438



Model No.	PV10000VE	PV20000VE
Input Data(DC)		
Max. DC Power	10500W	20800W
Max. DC Voltage	1000V	1000V
Start Voltage	350V	350V
PV Voltage Range	180V-1000V	180V-1000V
MPP Voltage Range	300V-1000V	300V-1000V
Max. Input Current	2*5A	2*26A
Max. Input Current Per String	20A	20A
Number Of Independent MPP Trackers/Strings Per MPP Tracker	2/2	2/3
Output (AC)		
Normal AC Output Power	10KW	20KW
Max. AC Apparent Power	10KVA	20KVA
Max. Output Current	16A	32A
AC Nominal Voltage; Range	3/N/PE, 230V/400V 184~275V	3/N/PE, 230V/400V 184~275V
AC Grid Frequency; Range	50/60Hz 44-55Hz/54-65Hz	50/60Hz 44-55Hz/54-65Hz
Power Factor	0.8Leading-0.8Laging	0.8Leading-0.8Laging
THDI	< 3%	< 3%
AC Grid Connection Type	Three Phase	Three Phase
Efficiency		
Max. Efficiency	98%	98%
Euro. Efficiency	97.5%	97.5%
Self-Consumption (Night)	< 0.5W	Self-Consumption (Night)
General Data		
Dimensions (W*H*D) (mm)	740*490*235	740*570*235
Weight	41Kg	60Kg
Operation Temperature Range	-25°C ~ +60°C	-25°C ~ +60°C
Topology	Transformerless	Transformerless
Cooling Concept	Smart Cooling	Smart Cooling
Protection Rating	IP65	IP65
Features		
DC Connection	H4/MC4 (opt)	H4/MC4 (opt)
AC Connection	Screw Terminal	Screw Terminal
Display	LCD	LCD
Interfaces	RS232/RS485	RS232/RS485
Warranty	5 Years	5 Years
Certificates	VDE-AR-N4105, CE, VDE 0126-1-1, IEC62109, EN50438	

AC COUPLING

SMART COMMIXTURE & SMART METER



FEATURES

- TO PREVENT EXCESS ELECTRICITY GENERATED BY SOLAR SYSTEM TO GRID.
- EASY TO INSTALL WITH ON GRID PV INVERTER.
- ENERGY STORAGE FOR ON GRID AND OFF GRID SOLAR SYSTEM.

SPECIFICATIONS

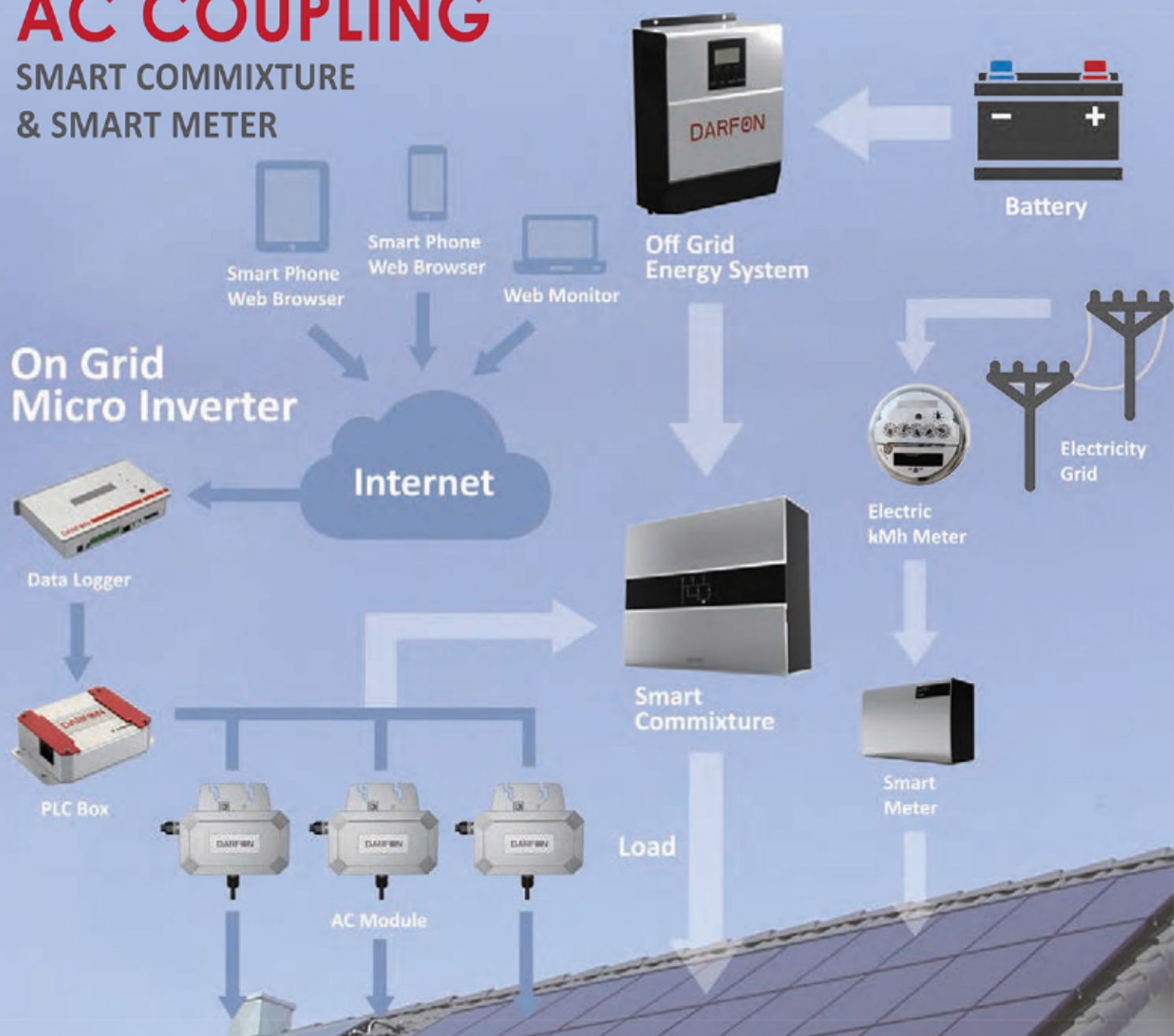
HBF5000A	
Rated Power	5000VA/4000W
GRID INPUT (AC)	
Nominal Voltage / Range	230VAC / 170-280VAC
Frequency / Range	50Hz or 60Hz / ± 2.5 Hz
SYSTEM OUTPUT	
AC Voltage Regulation	230VAC $\pm 5\%$
Surge Power	10000VA
Efficiency (Peak)	93%
Transfer Time	20ms
Pure Sine Wave	Yes
BATTERY CHARGER	
Rated Battery Voltage	48VDC
Battery Voltage Range	42V~54V
Floating Charge Voltage	54VDC
Overcharge Protection	60VDC
Maximum Charge Current	30A
GENERAL SPECIFICATIONS	
Humidity	5-95% RH (non-condensing)
Operating Temperature	0°C to 55°C
Dimension (W x H x D)	295 X 468 X 120 mm
Weight	10kg
Enclosure Rating	IP20

ACC5000	
PV CONNECTION	
Voltage Range	230VAC $\pm 5\%$
Maximum Power	5000W
Frequency / Range	50Hz or 60Hz / ± 2.5 Hz
SYSTEM OUTPUT	
Nominal Voltage / Range	230VAC / 170-280VAC
Rated Power	5000VA
Maximum Current	30A
Surge Current	60A
Transfer Time	20ms
Waveform	Pure Sine Wave
BATTERY CONNECTION	
Rated Battery Voltage	48VDC
Battery Voltage Range	42V~58V
INVERTER INPUT CONNECTION	
Nominal Voltage / Range	230VAC / 170-280VAC
Frequency / Range	50Hz or 60Hz / ± 2.5 Hz
Rated Power	5000VA
Maximum Power	5000VA
INVERTER OUTPUT CONNECTION	
Nominal Voltage	230VAC $\pm 5\%$
Frequency / Range	50Hz or 60Hz / ± 2.5 Hz
Surge Power	10000VA
Rated Power	5000VA
Maximum Power	5000VA
AC CHARGER CONNECTION	
Nominal Voltage / Range	230VAC / 170-280VAC
Frequency / Range	50Hz or 60Hz / ± 2.5 Hz
Maximum Power	5000W
GENERAL SPECIFICATIONS	
Self Consumption Power	1W
Humidity	0-95% RH (non-condensing)
Operating Temperature	-20°C to 55°C
Dimension (W x H x D)	315 X 260 X 120 mm
Weight	<3.0 kg
Enclosure Rating	IP20
SMART METER	
	EM50 EM100
Nominal Voltage / Range	230VAC / 170-280VAC
Nominal Current	50A 100A
Magnetic Contactor Control Voltage / Current	230VAC / 50A
Self Consumption Power	0.5W
Humidity	0-95% RH (non-condensing)
Operating Temperature	-20°C to 55°C
Dimension (W x H x D)	150 X 90 X 55 mm
Weight	<1.0 kg
Enclosure Rating	IP20



AC COUPLING

SMART COMMIXTURE
& SMART METER



HYBRID ENERGY SYSTEM

THE DARFON HYBRID ENERGY SYSTEM SUPPORTS OUTPUT UP TO 3000W. WITH CUSTOMIZABLE SETTINGS, THE USER IS ABLE TO CONTROL WHERE THE SYSTEM RECEIVES POWER FROM AND WHERE TO SEND IT TO: THE HOME, THE BATTERY AND/OR THE GRID.

NET METERING

CUSTOMIZABLE SETTINGS

- CONFIGURE PRIORITIES/SETTINGS FOR POWER INPUT AND OUTPUT

PURE SINE WAVE INVERTER

DISPLAYS BATTERY STATUS

- SHOWS BATTERY FUNCTIONALITY

MAXIMIZED ENERGY PRODUCTION

- MPPT ENSURES MAXIMUM POSSIBLE POWER PRODUCTION FROM PV MODULES

SPECIFICATIONS

HBB3000	
Rated Power	3000W
PV INPUT (DC)	
Maximum Power	3200W
Nominal / Maximum Voltage	360 / 500 VDC
Minimum Start Voltage	116 VDC
MPPT Voltage Range	250 - 450 VDC
Maximum Input Current	13A
Maximum Efficiency	96%
GRID INPUT (AC)	
Nominal Voltage / Range	230 / 211-264VAC
Frequency	50Hz
SYSTEM OUTPUT (AC)	
Nominal Output Voltage	230VAC
Surge Power	6000VA
Efficiency (Peak)	96%
Nominal Output Current	13.1A
Power Factor	> 0.99
Transfer Time	< 15 ms
Pure Sine Wave	Yes
GRID OUTPUT (AC)	
Nominal Output Voltage	230VAC
Max Feeding Power	3000W
Output Voltage Range	184~264.5VAC (±3%)
Max Output Current	13.6A
Efficiency (DC to AC)	92%
Feed-In / Connection Phases	1 / 1
BATTERY CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54VDC ± 0.5V
Overcharge Protection	59 VDC
Maximum Charging Current	25A
MECHANICAL DATA	
Humidity	0-90% RH (non-condensing)
Operating Temperature	0°C to 40°C
Dimension (W x H x D)	17.1 x 20.0 x 4.8 in (435.4 X 507.3 X 121.3 mm)
Weight	34.1 lbs (15.5 kg)
Enclosure Rating	IP20
Communication Port	RS-232/USB

* Extended frequency range available to serve local markets.



HYBRID

ENERGY SYSTEM

SYSTEM INPUT AND OUTPUT BASED ON SETTINGS / SCENARIOS

01 Solar Modules→Home (Priority 1) + Power Grid (Priority 2)



02 Battery (Priority 1) + Power Grid (Priority 2)→Home



03 Solar Modules→Home (Priority 1) + Battery (Priority 2) + Power Grid (Priority 3)



04 Solar Modules (Priority 1) + Battery (Priority 2)→Home



05 Power Grid→Home (Priority 1) + Battery (Priority 2)



HYBRID INVERTER

Darfon's Hybrid Inverter supports output up to 5000W. With customizable settings, the user is able to control where the system receives power from and where to send it to: the home, the battery and/or the grid.



SPECIFICATIONS

PV INPUT (DC)

Maximum Power	6500W
Nominal / Maximum Voltage	360 / 500 VDC
Minimum Start Voltage	116 VDC
MPPT Voltage Range	250 -450 VDC
Maximum Input Current	13A (2 String)
Maximum Efficiency	96%

GRID INPUT (AC)

Nominal Input Voltage / Range	240V / 180 -264V
Nominal Input Current	21A
Frequency / Range	60 / 59.3-60.5 Hz

SYSTEM OUTPUT (AC)

Rated Power	5000W
Nominal Output Voltage	120V / 240V
Output Voltage Range	104 - 132V / 208 - 252VAC (±3%)
Surge Power	10,000W
Nominal Output Current	21A
Max Output Current	24A
Power Factor	> 0.99
Transfer Time	< 20 ms
Pure Sine Wave	Yes
Efficiency (Peak)	96%
Efficiency (DC to AC)	93%

BATTERY CHARGER

Battery Voltage	48 VDC
Floating Charge Voltage	54VDC ± 0.5V
Overcharge Protection	59 VDC
Maximum Charging Current	60A

MECHANICAL DATA

Humidity	0-90% RH (non-condensing)
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Communication Port	RS-232 / RS-485 / USB
Dimensions (W x H x D)	29.5 x 20.1 x 5.9 in (750 x 510 x 150 mm)
Weight	66.1 lbs (30kg)
Enclosure Rating	IP20
Compliance	ETL Listed to UL1741, CSA C22.2 No. 107.1

NET METERING

CUSTOMIZABLE SETTINGS

- Configure priorities/settings for power input and output

PURE SINE WAVE INVERTER

DISPLAYS BATTERY STATUS

- Shows battery functionality

MAXIMIZED ENERGY PRODUCTION

- MPPT ensures maximum possible power production from PV modules

ADVANCED BATTERY STORAGE

Darfon's Advanced Battery Storage is designed to compliment its hybrid inverter, but it can also be used in other energy storage solutions. The battery is comprised of lithium-ion cells with an integrated communication interface for increased reliability, performance and efficiency. This battery storage can be used in on-grid and off-grid applications to create an uninterrupted power supply or utility support for PV.



SPECIFICATIONS

Battery Chemistry	Lithium-ion
Nominal Voltage	51.1V
Nominal Capacity	95.4Ah
Charge Voltage	57.4V
Discharge Voltage	42V
Charge Current (Max.)	0.5C
Discharge Current (Max.)	0.5C
Charge Operating Temperature	0 to 45°C
Discharge Operating Temperature	-20 to 45°C
Enclosure Rating	IP20
Communication Port	RS485 / RS232
Depth of Discharge (DOD)	80%
Cycle Life	>2000 at 25°C
Dimensions	24.0 x 25.6 x 5.8 in (610 x 650 x 148 mm)
Weight	88 lbs (40kg)
Protection Functions	Over Charge Detection Voltage Over Charge Release Voltage Excess Discharge Detection Voltage Excess Discharge Release Voltage Over Current Protection
Compliance	UN Transportation Certificate

HIGH RELIABILITY & EFFICIENCY

- Lithium-ion batteries maintain a higher efficiency rate compared to lead-acid batteries

LONG SERVICE LIFE

- More than 2000 cycles at 80% DOD

SCALABLE

- Modular design for battery capacity expansion

SMALLER FOOTPRINT

- Considerably smaller in size and much lighter than lead-acid batteries
- Slim profile and wall mountable

MINIMAL MAINTENANCE

- Integrated communication interface the monitors the battery's condition

OFF GRID ENERGY SYSTEM

THE DARFON OFF GRID ENERGY SYSTEM IS A CUSTOMIZABLE ENERGY SOLUTION AND CAN OPERATE ON OR OFF THE GRID. THE USER CAN CONFIGURE THE SETTINGS TO CONTROL THE SYSTEM'S INPUT AND OUTPUT. THIS ENERGY SYSTEM ACCEPTS POWER INPUT FROM SOLAR MODULES, THE POWER GRID AND EXTERNAL BATTERIES.

BACK-UP POWER FOR EMERGENCIES

- ENERGY SYSTEM WILL WORK ON AND OFF THE GRID

CUSTOMIZABLE SETTINGS

- CONFIGURE PRIORITIES/SETTINGS FOR POWER INPUT AND OUTPUT

PURE SINE WAVE INVERTER

DISPLAYS BATTERY STATUS

- SHOWS BATTERY FUNCTIONALITY

MAXIMIZED ENERGY PRODUCTION

- MPPT ENSURES MAXIMUM POSSIBLE POWER PRODUCTION FROM PV MODULES

SPECIFICATIONS

HBF2000		HBF3000	
Rated Power	2000VA/1600W		3000VA/2400W
PV INPUT (DC)			
Maximum PV Power	600W		
MPPT Voltage Range	30-66VDC		
Maximum Open Circuit Voltage	75VDC		
Maximum Charging Current	25A		
Maximum Efficiency	98%		
GRID INPUT (AC)			
Nominal Voltage / Range	230 / 211-264VAC		
Frequency	50Hz		
SYSTEM OUTPUT (AC)			
AC Voltage Regulation	230VAC		
Surge Power	4000VA	6000VA	
Efficiency (Peak)	93%		
Transfer Time	20ms		
Pure Sine Wave	Yes		
BATTERY CHARGER			
Rated Battery Voltage	24VDC		
Battery Voltage Range	21V~27V		
Floating Charge Voltage	27VDC		
Overcharge Protection	30VDC		
Maximum Charge Current	30A		
MECHANICAL DATA			
Humidity	5-95% RH (non-condensing)		
Operating Temperature	0°C to 55°C		
Dimension (W x H x D)	10.7 x 14.0 x 5.2 in (272 X 355 X 132 mm)		
Weight	17.6 (8 kg)		
Enclosure Rating	IP20		

* Extended frequency range available to serve local markets.



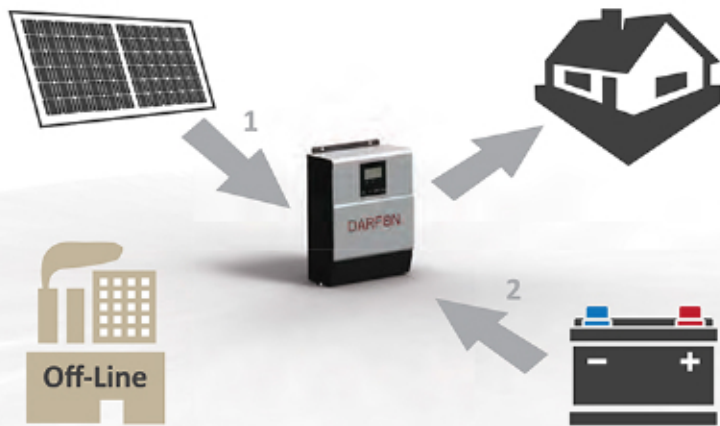
OFF GRID

ENERGY SYSTEM



SYSTEM INPUT AND OUTPUT BASED ON SETTINGS / SCENARIOS

01 Solar Modules (Priority 1) + Battery (Priority 2) → Home



02 Power Grid → Home (Priority 1) + Battery (Priority 2)



03 Battery → Home



04 Solar Modules → Home (Priority 1) + Battery (Priority 2)



MIG-240

MICRO INVERTER

FROM ITS MICRO INVERTERS TO ITS WEB-BASED MONITORING SYSTEM, DARFON BELIEVES IN CREATING A SOLAR POWER SOLUTION THAT IS EFFICIENT AND DEPENDABLE, AS WELL AS, USER-FRIENDLY.

IMPROVED SAFETY

- ELIMINATES THE NEED FOR HIGH VOLTAGE
- DC WIRING

MAXIMIZED ENERGY PRODUCTION

- DEBRIS OR SHADING DOES NOT IMPACT ENERGY PRODUCTION FOR THE ENTIRE PV ARRAY

FLEXIBLE PV ARRAY DESIGN

- UP TO 25 UNITS PER 30A BRANCH CIRCUIT
- SCALABLE FOR FUTURE EXPANSION

RELIABLE

- FULLY POTTED DESIGN FOR BETTER HEAT DISSIPATION

ENHANCED MONITORING SYSTEM

- PROVIDES REAL-TIME DETAILED INFORMATION
- SECURE HOUSEHOLD DATA MONITORING

SPECIFICATIONS

INPUT DATA (DC)	
Recommended Maximum Input Power (STC)	Up to 260W
Nominal Input Power	240W
Maximum Input DC Voltage	60V
Maximum Peak Power Tracking Voltage	24 ~ 40V
Minimum Start Voltage	24V
Maximum DC Short Circuit Current	12A
Maximum Input Current	10A
OUTPUT DATA (AC)	
Maximum Continuous Output Power	220W
Maximum peak Output Power	245W
Nominal Output Current	0.917A
Nominal Voltage / Range	230 / 211-264 V
Nominal Frequency	50Hz
Power Factor	>0.95
Maximum Units per 30A Branch Circuit	25 (Single Phase)
EFFICIENCY	
Peak Inverter Efficiency	95.7%
CEC Weighted Efficiency	95%
Nominal MPP Tracking	99%
Night Time Power Consumption	51mW
MECHANICAL DATA	
Ambient Temperature Range	-40°C to 65°C
Operating Temperature Range (Internal)	-40°C to 85°C
Dimensions (W x H x D)	8.7 x 5.1 x 1.5 in (220 x 130 x 37mm)
Weight	5.5 lbs (2.5 kg)
Cooling	Natural Convention - No Fans
Enclosure Environmental Rating	Outdoor - NEMA 6
FEATURES	
Communication	Powerline
Compliance	EN 61000-6-2, EN 61000-6-3, MNRE, FCC Part15 Class B, UL 1741, IEEE 1547



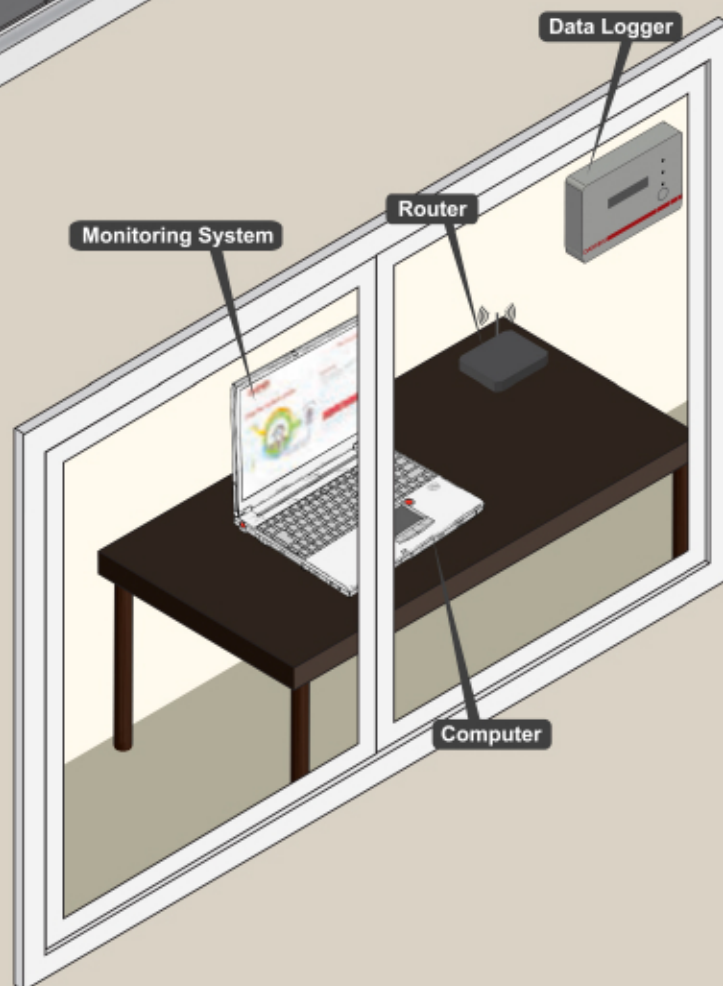
MIG-240

MICRO INVERTER



DARFON PART LIST

PART #	DESCRIPTION
MIG240	240W Micro Inverter (Rack Mounting, Connector Type: MC-4)
JY.MIUL0.210	Data Logger
JY.MIUL0.110	PLC Box
5K.JMI01.227	10AWG AC Trunk Cable (Portrait 1.05m/41") x 25 Plugs
5K.JMI01.207	10AWG AC Trunk Cable (Portrait 1.05m/41") x 50 Plugs
5K.JMI01.225	10AWG AC Trunk Cable (Landscape 1.7m/67") x 25 Plugs
5K.JMI01.226	10AWG AC Trunk Cable (Landscape 1.7m/67") x 50 Plugs
4B.JMI09.L01	10AWG Cable Joiner (Male + Female)
4B.JMI08.401	10AWG End Cap
4B.JMI07.D01	Sealing Cap
4B.JMI05.702	AC Connector Removal Tool
4B.JMI05.701	DC Connector Removal Tool



MIG300 MICRO INVERTER

Darfon believes in creating solar power solutions that are efficient, dependable, and user friendly. With that in mind, the MIG300 micro inverter was designed to be easy to handle and install. It has a maximum input power rating of 300W, making it compatible with a wide range of solar modules.



SPECIFICATIONS

Input Data (DC)

Recommended STC Module Input Power Rating	Up to 300W
Nominal Input Power	300W
Maximum Input DC Voltage	60V
Peak Power Tracking Voltage	24 - 40V
Minimum Start Voltage	24V
Maximum DC Short Circuit Current	12A
Maximum Input Current	10A

Output Data (AC)

Continuous Output Power	250W
Peak Output Power	260W
Nominal Output Current	1.04A
Nominal Voltage / Range	240 / 211 - 264V
Nominal Frequency / Range	60 / 59.3 - 60.5 Hz *
Power Factor	>0.95
Maximum Units per Branch Circuit (Single Phase)	20A Branch Circuit: 16 Units 30A Branch Circuit: 24 Units

Efficiency

Peak Inverter Efficiency	95.8%
CEC Weighted Efficiency	95%
Nominal MPP Tracking	>99%
Night Time Power Consumption	< 89mW

Mechanical Data

Ambient Temperature Range	-40°C to 65°C
Operating Temperature Range (Internal)	-40°C to 85°C
Dimensions (W*H*D)	8.7 * 5.1 * 1.5 in (220 * 130 * 37mm)
Weight	5.5 lbs (2.5 kg)
Cooling	Natural Convention - No Fans
Enclosure Environmental Rating	Outdoor - NEMA 6

Features

Communication	Powerline
Compliance	EN 61000-6-2, EN 61000-6-3, FCC Part15 Class B, UL 1741, IEEE 1547

IMPROVED SAFETY

- Eliminates the need for high voltage DC wiring

FLEXIBLE PV ARRAY DESIGN

- Integrated grounding eliminates the need for additional GEC
- Up to 24 units per 30A branch circuit
- Scalable for future expansion

MAXIMIZED ENERGY PRODUCTION

- Debris/shading does not impact energy production for the entire PV array
- Real-time cloud-based monitoring through web browsers and mobile apps

CLOUD-BASED MONITORING SYSTEM



With the Darfon monitoring system, each panel/micro inverter can be examined so potential issues can be located and resolved. The system auto-detects the installed micro inverter, making set-up simple and easy.

With Darfon's cloud-based monitoring system, real-time information is available on mobile devices via apps for Android® or iOS®.

Easy Setup: Drag & drop PV panels to create arrays, then assign auto-generated inverter serial number.



Graph View (Homeowner): An overview of the PV system's energy production/performance.



Project List: Manage and monitor the performance of your PV projects.

Project Name	Location	Installed By	Status	Energy Produced
100W Pioneer 100W	Mountain View, CA 94041, United States	John Smith	Active	10.88 kWh
100W Pioneer 100W	Mountain View, CA 94041, United States	John Smith	Active	10.88 kWh
100W Pioneer 100W	Mountain View, CA 94041, United States	John Smith	Active	10.88 kWh
100W Pioneer 100W	Mountain View, CA 94041, United States	John Smith	Active	10.88 kWh
100W Pioneer 100W	Mountain View, CA 94041, United States	John Smith	Active	10.88 kWh

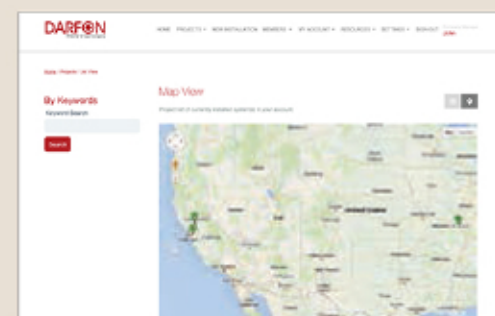
Installer/Manager List: Manage employee access permissions & monitor your installers PV systems.

ID	Name	Role	Status	Created At
1	John Smith	Manager	Active	January 01, 2014
2	John Smith	Manager	Active	January 01, 2014
3	John Smith	Manager	Active	January 01, 2014
4	John Smith	Manager	Active	January 01, 2014
5	John Smith	Manager	Active	January 01, 2014
6	John Smith	Manager	Active	January 01, 2014

Array View: Easily manage all your Darfon micro inverter installations.



Map View: Displays the locations of the company's installed PV systems.

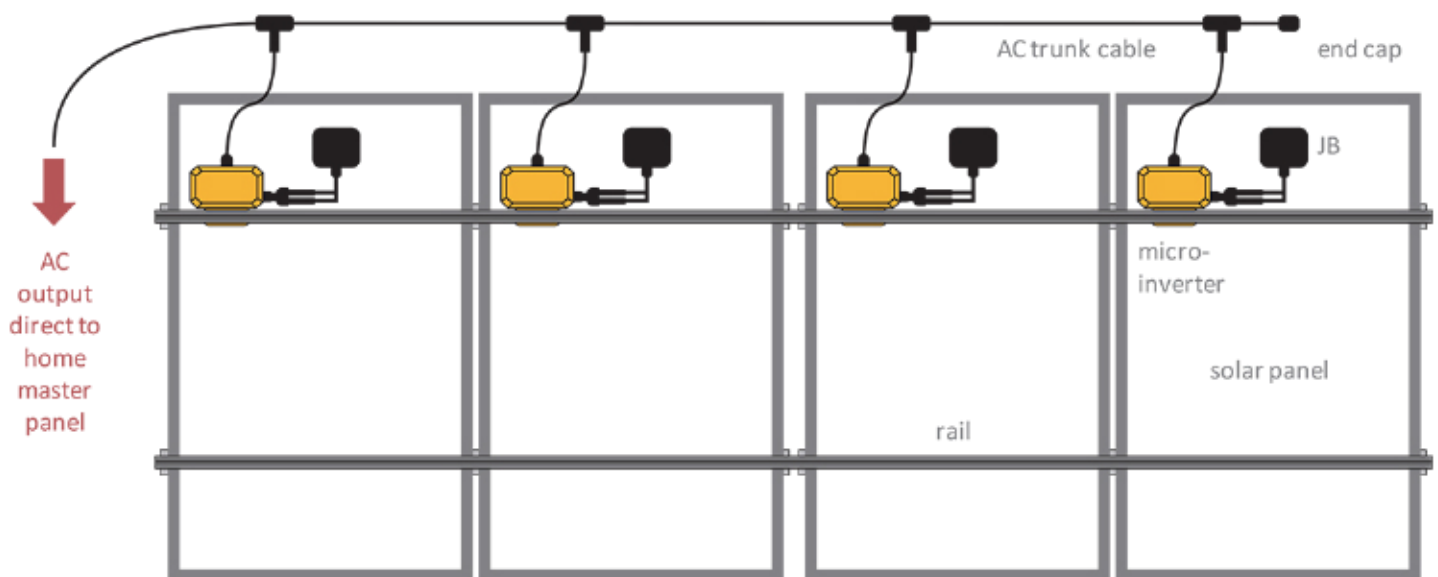


MicroPV[®] SOLAR KITS

WITH MICRO-INVERTER TECHNOLOGY



- Small power units for flexibility and low budget
- Expandable to larger system capacity
- Grid-tied micro-inverters with built-in protections
- Low system voltage ensures user and fire safety
- Use for feed-in tariff and net-metering policies
- All-in-one flat-pack, including mounting system
- Pre-assembled parts to save on installation time

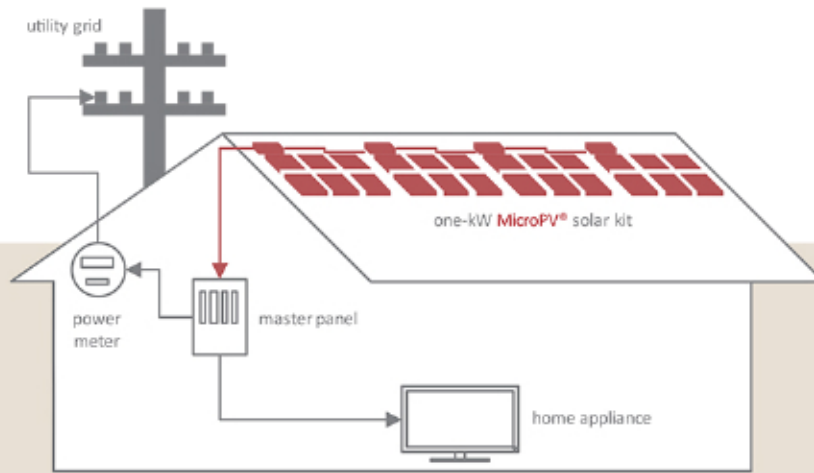


Schematic of a **MicroPV[®]** solar system with 4 panels.



Solar panels can be mounted at a tilt angle or flushed to the slanted rooftop





Darfon's proprietary micro-inverter technology allows the **MicroPV** kits to be installed and grid-tied quickly and operate under ordinary low household voltages



Installation of **MicroPV** kits on rooftops showing rail-mounted micro-inverters.



The **MicroPV** system allows a micro-inverter to be mounted on a rail underneath a solar panel.

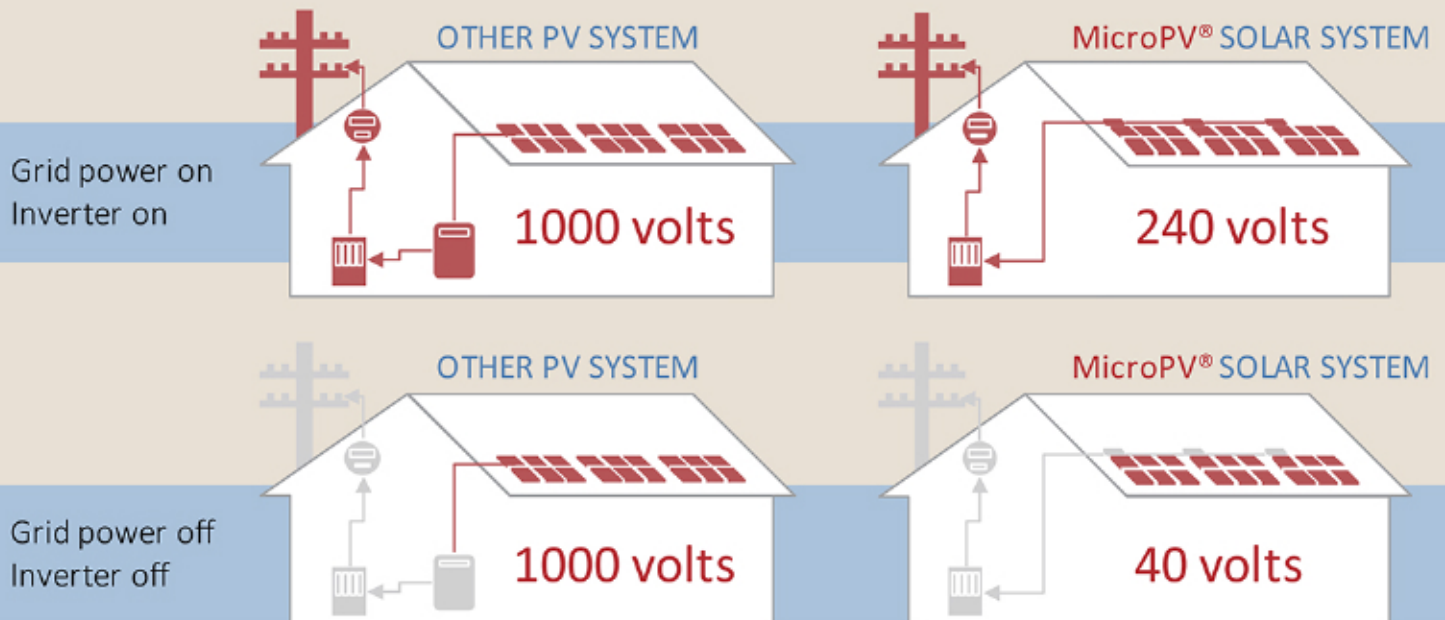


Easy-to-install mounting systems are bundled in every **MicroPV** solar kit. Most parts are pre-assembled to save installation time.



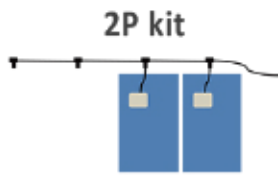
NEW STANDARD IN USER AND FIRE SAFETY

Even with the grid power being cut-off, traditional solar systems can still be energized up to 1000 volts, posing great hindrance to fire fighting. This problem has been eliminated with the **MicroPV** solar system, where 240 volts is the maximum when the grid power is on, and only 40 volts (panel voltage) when the grid power is off.



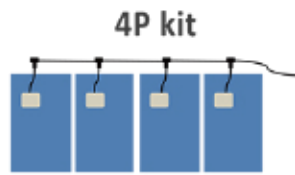
MicroPV® SELECTIONS

CHOOSE KITS TO MATCH SITE REQUIREMENT



2P kit

The 2P kit is a starter's kit for those wish to start small. The kit comes with just two solar panels, but can be expanded to 4 panels later without having to disconnect any cabling.



4P kit

The 4P kit is a complete system with 4 panels and 4 micro-inverters ready to be grid-connected. Multiple 4P kits can be installed together to form a larger system.



8P kit

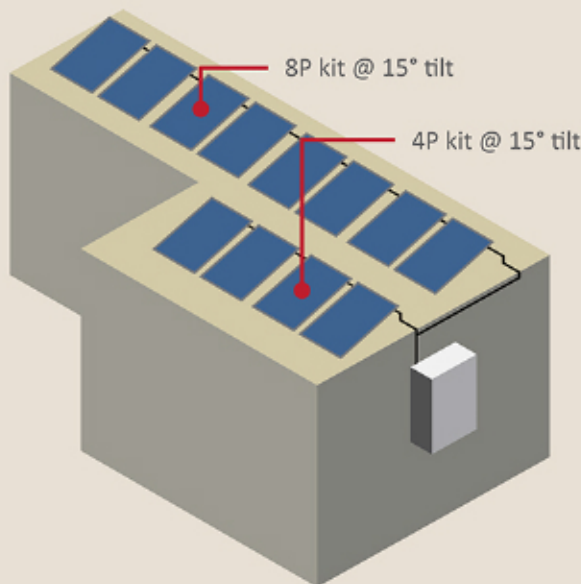
The 8P kit is the most economical system for larger rooftops. It comes with 8 solar panels and 8 micro-inverters connected together with a continuous trunk cable for fast installation.

EASY 3-STEP SELECTION PROCESS

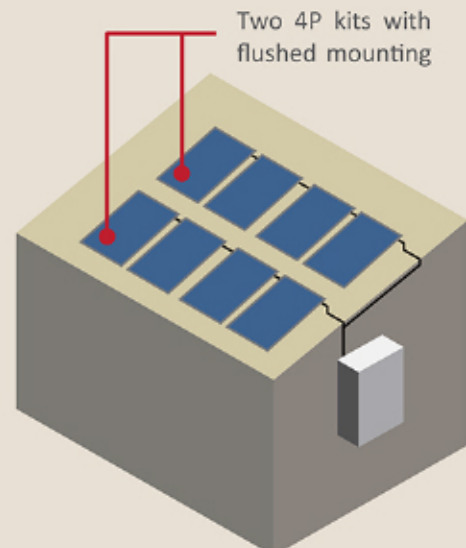
STEP 1 – Measure the available installation area of your rooftop

STEP 2 – Layout the area with your choice of 2P, 4P or 8P kit/s

STEP 3 – Decide which type of mounting you need, either flushed, 10°, 15°, or 25° tilted



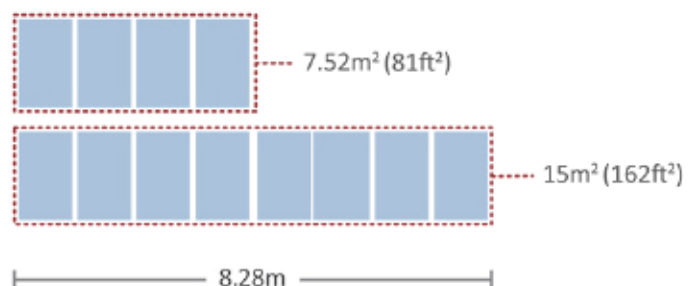
Example A : Flat rooftop



Example B : Pitched rooftop

MicroPV® various footprint areas

Kit model	L * W	Area(m ²)
2p kit	2.12 * 1.7	3.76
4p kit	4.24 * 1.7	7.52
8p kit	8.28 * 1.7	15.0



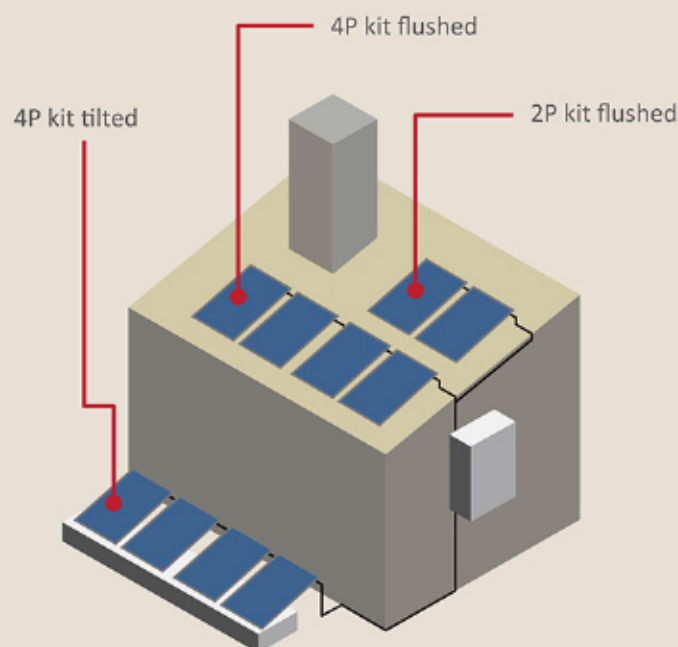
A **MicroPV®** 4P kit contains 4 solar panels, 4 micro-inverters, one AC trunk-cable, one mounting system, and an user guide.



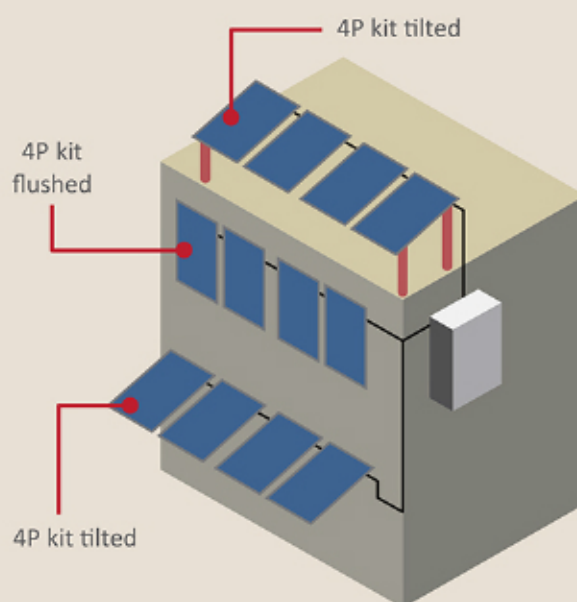
Major **MicroPV®** kits variations

Kit Contents	2P kit	4P kit	8P kit
Nominal capacity (kWp dc)	0.5	1.0	2.0
No. of solar panels	2	4	8
No. of micro-inverters	2	4	8
No. of trunk cable drops	4	4	8
No. of mounting rails	2	4	8
No. of panel clamps	6	12	24
No. of support legs	6	12	24

Example C : Rooftop and on-ground



Example D : Awning, wall, and canopy



Tilted mounting
(10°,15°,25°)

Flushed mounting

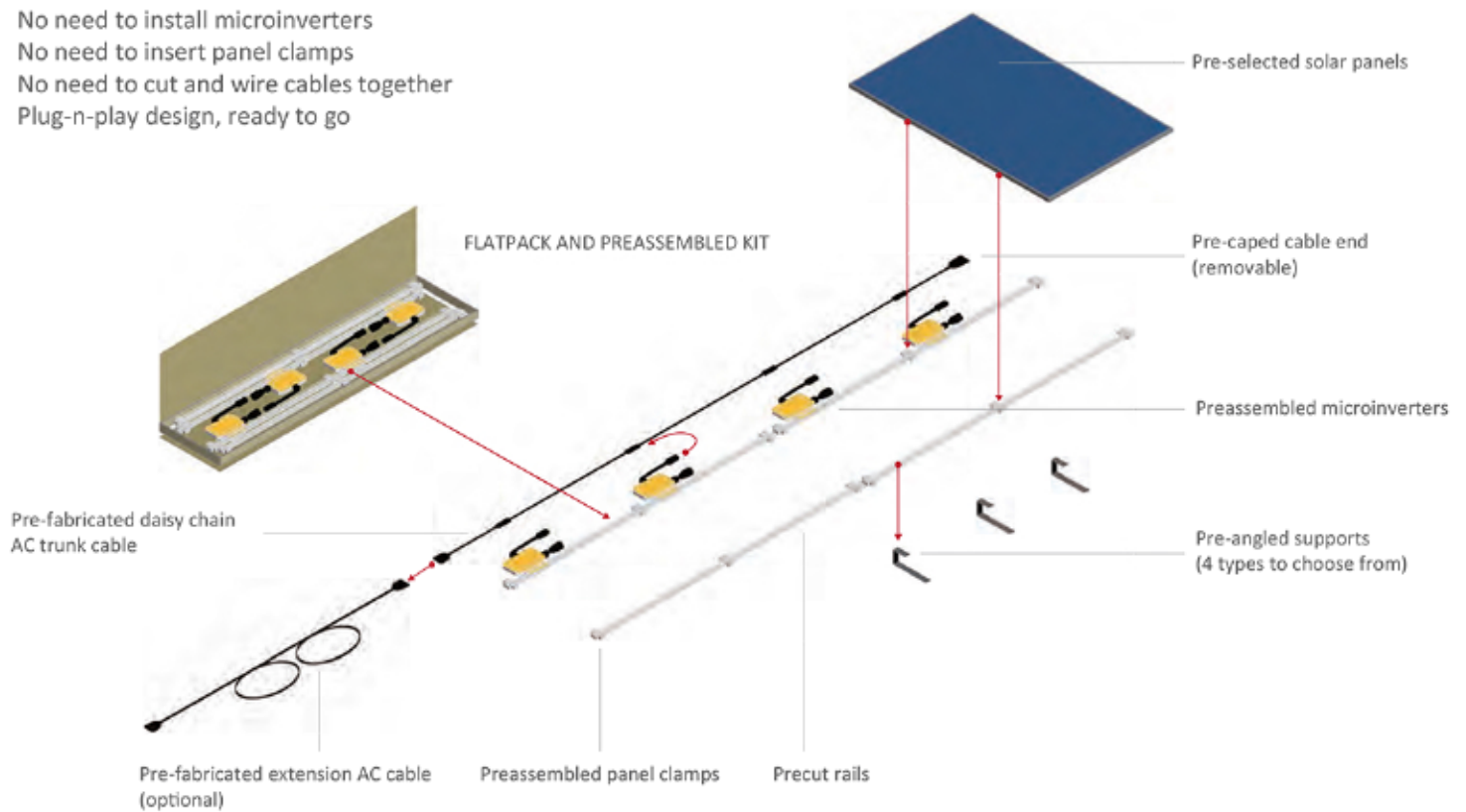
Panel tilt angle guide



MicroPV[®] PLUG-N-PLAY

PREASSEMBLED FOR INSTANT USE

No need to install microinverters
No need to insert panel clamps
No need to cut and wire cables together
Plug-n-play design, ready to go



MicroPV[®] STANDARD KIT

ONE KILOWATT PER KIT FOR EASY EXPANSION

