OUTDOOR SOLAR MICROGRID CABINET

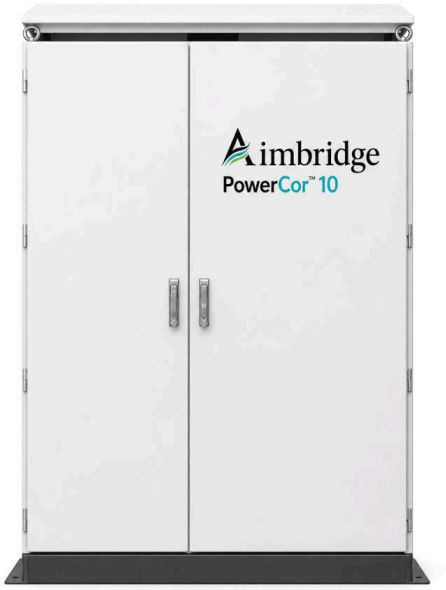
PowerCor 10

Outdoor solar microgrid power for resilient site infrastructure.

PowerCor 10 is a factory-assembled outdoor solar microgrid cabinet for remote facilities, thin-grid sites and distributed infrastructure. It integrates Victron charge controllers, inverter/chargers, energy management, DC distribution, generator control and remote monitoring in one outdoor enclosure designed to NEMA Type 3R.

Six standard models support off-grid, generator-assisted and utility-connected non-export operation with an external 48 V managed battery, sold separately.

Product page & documents
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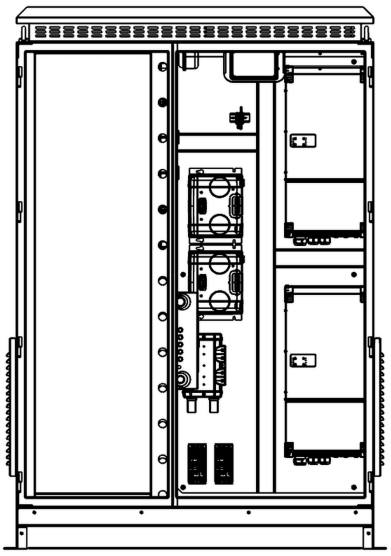


5–10 kVA	5.8–11.6 kWp	48 VDC	120 or 120/240 VAC	−4 to 122 °F
INVERTER CAPACITY	DC-COUPLED PV INPUT	MANAGED BATTERY BUS	AC OUTPUT	OPERATING AMBIENT

KEY FEATURES

- One or two Victron MultiPlus-II 48/5000 inverter/chargers: up to 10 kVA continuous, 18 kW peak
- One or two SmartSolar MPPT 250/100 charge controllers for up to 11.6 kWp of DC-coupled PV
- Off-grid, generator-assisted, or utility-connected non-export operation
- Optional factory-wired AC panel; AC-out-2 sheds nonessential loads on battery
- Two 48 VDC direct load outputs, 50 A breaker each
- Touchscreen system controller with local and remote monitoring
- Welded aluminum cabinet designed to NEMA Type 3R, with 19-in equipment racks on the left-hand side, fans, filters, and 3-point locks

INTERIOR LAYOUT



Doors hidden. Inverter/chargers, MPPT charge controllers, battery breakers, distribution and controls are on the right; 19-in equipment racks are on the left.

TECHNICAL SPECIFICATIONS

Specifications are typical at 77 °F (25 °C), nominal input voltage, and rated load unless otherwise noted.

Model	1 MPPT · 1 inverter	2 MPPT · 1 inverter	2 MPPT · 2 inverters
SYSTEM & AC POWER			
System type	Factory-integrated solar charging, inverter/charger, DC distribution, and controls		
Operating modes	Off-grid; generator-supported; utility-connected non-export		
Inverter/chargers	1 × MultiPlus-II 48/5000/70-95	1 × MultiPlus-II 48/5000/70-95	2 × MultiPlus-II 48/5000/70-95
Rated inverter output[1]	5 kVA; 4 kW	5 kVA; 4 kW	10 kVA; 8 kW
Peak inverter power	9 kW	9 kW	18 kW
AC output	120 VAC, 60 Hz	120 VAC, 60 Hz	120/240 VAC, 60 Hz split-phase
AC input	One source (utility or generator); 90–140 VAC per inverter, 45–65 Hz		
Transfer switch	95 A	95 A	95 A per inverter
AC charger	70 A	70 A	70 A per inverter
AC distribution	Factory-wired AC panel on AC Panel models (016-3601, -3603, -3605)		
AC load shedding	AC-out-2 disconnects nonessential loads in battery-only operation		
PV & BATTERY			
Solar charge controllers	1 × SmartSolar MPPT 250/100-Tr VE.Can	2 × SmartSolar MPPT 250/100-Tr VE.Can	2 × SmartSolar MPPT 250/100-Tr VE.Can
Nominal PV capacity[2]	5.8 kWp	11.6 kWp	11.6 kWp
PV input channels	1	2	2
PV voltage limit	245 VDC operating/startup; 250 VDC absolute max per MPPT		
PV short-circuit current	70 A max per MPPT		
PV charge current[3]	100 A max	200 A max	200 A max
External PV equipment	Field-supplied combiner, disconnect, rapid shutdown, SPD, and GFD as required by code		
Battery system	External 48 VDC managed battery, sold separately; lug connection through conduit		
Battery compatibility	Victron-approved batteries with closed-loop CAN-bus BMS		
Battery voltage range[3]	38–66 VDC		
CONTROLS & DC OUTPUTS			
System controller	Victron Ekrano GX, 7-inch touchscreen		
Energy management	PowerControl, PowerAssist, battery reserve, scheduled charging, peak shaving, generator control		
Monitoring	Local display; VRM remote monitoring via Ethernet/Wi-Fi		
Direct DC outputs	2 load-only branches; 48 VDC nominal, 60 VDC max, unregulated		
DC output protection	50 A breaker per output; backfeed, chargers, and regenerative loads not permitted		
DC grounding	Negative-grounded; single DC negative-to-PE bond		
ENCLOSURE & ENVIRONMENTAL			
Enclosure	Outdoor equipment cabinet designed to NEMA Type 3R		
Construction	Welded 0.12 in (3 mm) aluminum; RAL 7035 powder coat; stainless-steel hardware		
Included features	Double doors, 3-point locks, 19-in equipment racks (left-hand side), 48 VDC fans, filters, rain hoods, gland plates, lifting eyes		
Operating ambient	−4 to +122 °F (−20 to +50 °C)		

Final ratings are governed by the certified configuration, installed battery BMS limits, branch protection, and ambient temperature. Model numbers per column are listed under Ordering Information.

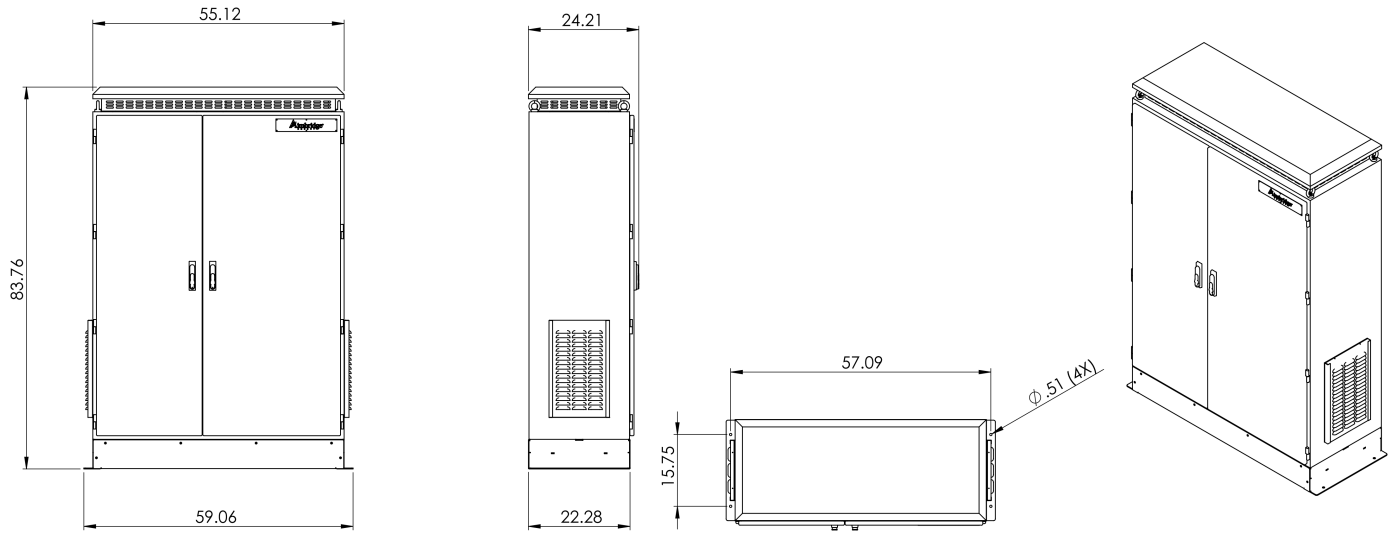
1. Inverter manufacturer rating, per inverter: 4 kW at 77 °F (25 °C), 3.7 kW at 104 °F (40 °C).
2. At 48 V nominal; 5.8 kWp per MPPT.
3. Limited by battery BMS and DVCC.

INTERFACES & COMMUNICATIONS

INTERFACE	TYPE / RATING	FUNCTION
Digital Input 1	Dry contact, closed loop	Cabinet door alarm (fail-safe)
Digital Input 2	Dry contact	Generator running feedback
Relay 1	Programmable relay	Generator start/stop
Ethernet / Wi-Fi	Ekrano GX	VRM remote monitoring and control
Bluetooth	Ekrano GX	Initial setup and network configuration
VE.Bus	Ekrano GX VE.Bus port	Inverter/charger communication and control
VE.Can	Ekrano GX VE.Can port	SmartSolar MPPT communication
CAN-bus BMS	Ekrano GX second CAN port	Battery BMS communication

DIMENSIONS

OUTLINE DIMENSIONS



Front, side, plan and isometric views. Dimensions in inches.

KEY DIMENSIONS & WEIGHTS	
External (H × W × D)	83.76 × 55.12 × 24.21 in (2128 × 1400 × 615 mm) overall
Base flange	59.06 in (1500 mm) wide
Usable internal depth	21.7 in (550 mm)
Mounting plate	67.7 × 28.3 in (1720 × 720 mm)
Weight	550–615 lb (249–279 kg), varies by configuration
Cabinet body depth	22.28 in (566 mm), excluding doors and handles
Anchor holes	4 × Ø0.51 in (13 mm) on a 57.09 × 15.75 in (1450 × 400 mm) pattern

Dimensions are nominal, in inches (mm). Overall height is base flange to roof; overall depth includes the doors and handles.

ORDERING INFORMATION

PowerCor 10 is available in six standard factory configurations. Batteries and external PV equipment are sold separately.

PART NUMBER	DESCRIPTION	RATING
016-3600-10	PowerCor 10, 1 MPPT, 1 inverter, 120 VAC	5 kVA / 5.8 kWp
016-3601-10	PowerCor 10, 1 MPPT, 1 inverter, AC panel, 120 VAC	5 kVA / 5.8 kWp
016-3602-10	PowerCor 10, 2 MPPTs, 1 inverter, 120 VAC	5 kVA / 11.6 kWp
016-3603-10	PowerCor 10, 2 MPPTs, 1 inverter, AC panel, 120 VAC	5 kVA / 11.6 kWp
016-3604-10	PowerCor 10, 2 MPPTs, 2 inverters, 120/240 VAC	10 kVA / 11.6 kWp
016-3605-10	PowerCor 10, 2 MPPTs, 2 inverters, AC panel, 120/240 VAC	10 kVA / 11.6 kWp

STANDARDS & COMPLIANCE

CATEGORY	EQUIPMENT / SCOPE	STANDARDS	STATUS
Safety	Inverter/chargers	UL 1741	Listed
Safety	PowerCor 10 assembly	UL 1741	Pending

REVISION HISTORY

REV.	DATE	DESCRIPTION OF CHANGE
A	November 2026	Initial release.

Pricing and availability through authorized distributors.

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