

Renewable Energy Solar Power Kits

Reliable 24/7 power designed for PoE/PoE+/HPoE powered security equipment

Product Description

The challenge of needing to mount surveillance equipment in remote locations where a network cannot be established using traditional methods has been a niche for which KBC has provided solutions for over 25 years. Many of those same applications also lack available and constant power. Arranging to get power to remote locations can be a very costly endeavor. A clean, easy, and affordable alternative is an engineered solar power kit that is specifically designed to support all the devices needing power. Our kits are conservatively specified and built to eliminate the threat of power outages in the shorter days of the winter months because we size the kit to the need. Because all needed components are built-in, there is no lost tech time on site trying to figure out how to assemble and wire the various items to complete the solution.

Product Features

- Fully assembled power kits ready to apply batteries and mount.
- Backplate with DIN Rail provided to mount additional equipment.
- Advanced MPPT controller included and integrated;
 compatible with sealed lead acid or lithium iron phosphate batteries.
- Two different sizes of lockable enclosures available; supports up to several days of stored power (variable based on power draw and battery bank installed).

Included in the Kits

- Solar panel array and pole mounting kit
- Battery enclosure with integrated power assembly including charge controller
- 12VDC output
- Mobile device battery and solar input diagnostic application (Available to download from app stores)

Zone 4 Zone 3 Zone 3 Zone 3

Part Numbers

Kit Model No.	Solar Array*	Max	k Wattag	ge by So	lar Zone	2**	Battery Space (in)	Fits***
KBC-AL2-100W	(1) 40 x 27"	1 14	2 12	3 9	4 6.5	5 3.5	12.5 d x 13.5 w x 9.5 h	2x 100AH
KBC-AL2-200W	(2) 40 x 27"	1 28	2 25	3 18	4 6.5	5 3.5	12.5 d x 13.5 w x 9.5 h	2x 100AH
KBC-AL2-300W	(1) 65 x 39"	1 45	2 35	3 27	4 18	5 10	12.5 d x 13.5 w x 9.5 h	2x 100AH
KBC-AL2-375W	(1) 78 x 39"	1 51	2 46	3 35	4 24	5 12	12.5 d x 13.5 w x 9.5 h	2x 100AH
KBC-AL5-375W	(1) 78 x 39"	1 51	2 46	3 35	4 24	5 12	13 d x 21 w x 19 h	2x 250AH
KBC-AL2-600W	(2) 65 x 39"	1 90	2 70	3 54	4 36	5 20	12.5 d x 13.5 w x 9.5 h	2x 100AH
KBC-AL5-600W	(2) 65 x 39"	1 90	2 70	3 54	4 36	5 20	13 d x 21 w x 19 h	2x 250AH
KBC-AL5-750W	(2) 78 x 39"	1 103	2 92	3 70	4 48	5 25	13 d x 21 w x 19 h	2x 250AH
KBC-AL5-1200W	(4) 65 x 39"	1 180	2 140	3 108	4 72	5 40	13 d x 21 w x 19 h	2x 250AH
KBC-AL5-1500W	(4) 78 x 39"	1 206	2 184	3 140	4 96	5 50	13 d x 21 w x 19 h	2x 250AH

^{*}Side of pole mount kits supplied with 100-750W kits. No poles or batteries included. A pole is included with the two largest kits (i.e., KBC-AL5-1200W and KBC-AL5-1500W) to mount the top-of-pole mounting assembly for the solar array. The 1200 and 1500 solar kits are (4) 5ft x 3.5ft solar panels mounted to form a vast array. Due to the clearance needed around the panels, KBC suggests pouring a concrete slab for the supplied pole while fencing off the area for safety. Alternatively, we also offer a stacked solar array option (different kit model number) to be mounted on a customer provided utility pole. Contact KBC for details.

^{**}Figures based on solar output from minimum average peak sun hours on the shortest day of the year.

^{***}Most battery manufacturer's sealed lead-acid battery; refer to dimensions of your chosen battery to ensure correct fit within capacity dimensions shown. Enclosure will also fit and operate lithium iron phosphate batteries (typically equivalent amp hour spec)

Specifications

e color	KBC-AL2-100W	KBC-AL2-200W	KBC-AL2-300W	KBC-AL2-375W	KBC-AL2-600W					
Enclosure		Hairahte 24 Fire	Width, 16 in a Docth, 12 in	E4.61.cm v.40.64.cm :: 7.63 -::						
nterior dimensions	Height: 21.5 in x Width: 16 in x Depth: 13 in; 54.61 cm x 40.64 cm x 7.62 cm									
Material	Powder coated aluminum									
Weight	13 lbs; 5.9 Kg									
Mounting system Lockable	Integrated pole/wall mounting system (included)									
Space for batteries	Lockable by padlock (not supplied) 12.5 in x 13.5 in x 9.5 in; 31.75 cm x 34.29 cm x 24.13 cm									
Power Assembly		12.5 111 7	X 15.5 III X 9.5 III, 51.75 CIII X	34.29 CIII X 24.13 CIII						
Charge controller		Advanced May Power Po	oint Tracking (MPPT) with nr	e-installed advanced charge algor	ithm					
Solar voltage input	12VDC	24VDC	24VDC	24VDC	24VDC					
Power output				elow regarding installing afterma						
Mounting surface			·	N Rail to mount additional access						
Operating temp	· · · · · · · · · · · · · · · · · · ·	-40° ~ +140° Fahrenheit	· · · · · · · · · · · · · · · · · · ·	up to 50% of stored energy in ten						
Battery Bank	10 100 00101007	10 1210 1411161111611		ap to solve of stored energy in ten	.peratares to tres than o					
Battery type	Seale	ed Lead Acid (SLA) or Lithiu	ım Iron Phosphate (LiFePo):	batteries are not included with th	e solar kits.					
Battery wiring			batteries, wired in parallel		Parallel or series					
Solar Panel(s)	I.									
Wattage	100W	100W	300W	375W	300W					
Number of panels	1	2	1	1	2					
Voltage output			12VDC only		12 or 24VDC					
Panel wiring	N/A	Series	N/A	N/A	Parallel					
Wind rating		90 mph	.,,	115 mph						
Mounting Kit		- A strikest		220 111111						
Type of pole mount		All solar kits smaller	than 1200W are side-of-no	le mount assembly kits (included)						
Pole size			ends a 3"-6" circular pole tha							
Pole included	No pole included with solar kits smaller than 1200W									
Winter mount angle		·	onsult online search for kit d							
Recommended Access	ories		onioune onimic occiron for the u	epioyinent area						
Batteries		ad Acid (max two in these k	kits) KBC-B12100: Lithium Iro	on Phosphate also available, conta	act KBC for details					
Hardened PoE Switch		· · · · · · · · · · · · · · · · · · ·	·	provide 8-ports 802.3af/at and fib						
Hardened Injectors										
riaractica injectors										
Inverter			· · · · · · · · · · · · · · · · · · ·	E: KBC-DC/DC-48M; to provide HF						
Inverter			· · · · · · · · · · · · · · · · · · ·	erted DC to AC and back to DC wi						
Inverter	Inverters are not reco	mmended as power becon	nes less efficient when conv	erted DC to AC and back to DC wi	th plug-in power supply					
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						
Enclosure	Inverters are not reco	KBC-AL5-600W	nes less efficient when conv	erted DC to AC and back to DC wi	th plug-in power supply					
Enclosure Interior dimensions	Inverters are not reco	KBC-AL5-600W	KBC-AL5-750W Width: 22 in x Depth: 13 in;	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm	th plug-in power supply					
Enclosure Interior dimensions Material Weight	Inverters are not reco	KBC-AL5-600W	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum	th plug-in power supply					
Enclosure Interior dimensions Material Weight	Inverters are not reco	KBC-AL5-600W Height: 30 in x	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum	th plug-in power supply					
Enclosure Interior dimensions Material Weight Mounting system	Inverters are not reco	KBC-AL5-600W Height: 30 in x	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included)	th plug-in power supply					
Enclosure Interior dimensions Material Weight Mounting system Lockable	Inverters are not reco	KBC-AL5-600W Height: 30 in x	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting s Lockable by padlock (not	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied)	th plug-in power supply					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries	Inverters are not reco	KBC-AL5-600W Height: 30 in x	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied)	th plug-in power supply					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly	Inverters are not reco	KBC-AL5-600W Height: 30 in x N Inte	Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting s Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm	th plug-in power supply KBC-AL5-1500W					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller	KBC-AL5-375W	KBC-AL5-600W Height: 30 in x \ Inte 13 in a	Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting s Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor	th plug-in power supply KBC-AL5-1500W					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller Solar voltage input	KBC-AL5-375W L2VDC	KBC-AL5-600W Height: 30 in x N Inte 13 in : Advanced Max Power Po	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting s Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5 Dint Tracking (MPPT) with pr	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor	th plug-in power supply KBC-AL5-1500W ithm 24VDC					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller Solar voltage input Power output	KBC-AL5-375W L2VDC L2VDC	Meight: 30 in x Meigh: 30 in x Meig	Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting: Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5 Dint Tracking (MPPT) with pr 24VDC outlet provided – see note be	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor 24VDC elow regarding installing afterma	th plug-in power supply KBC-AL5-1500W ithm 24VDC rket inverters.					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller Solar voltage input Power output Mounting surface	Inverters are not reco KBC-AL5-375W 12VDC 12VDC The power assembly	MREC-AL5-600W Height: 30 in x N Inte 13 in a Advanced Max Power Po 24VDC NOTE: There is no AC or y is pre-mounted to a back	Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting s Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5 Dint Tracking (MPPT) with pr 24VDC outlet provided – see note be plate which also provides DI	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor 24VDC elow regarding installing afterma N Rail to mount additional access	ithm 24VDC rket inverters. ories and other equipments					
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Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller Solar voltage input Power output Mounting surface Operating temp Battery Bank Battery type Battery wiring Solar Panel(s) Wattage Number of panels Voltage output Panel wiring	12VDC 12VDC 12VDC The power assembly -40° ~ +60° Celsius / Seale	MREC-AL5-600W Height: 30 in x N Inte 13 in Advanced Max Power Po 24VDC NOTE: There is no AC or y y is pre-mounted to a back -40° ~ +140° Fahrenheit ed Lead Acid (SLA) or Lithiu If two 12VDC 300W 2	KBC-AL5-750W Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting st Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5 Dint Tracking (MPPT) with pr 24VDC outlet provided – see note be plate which also provides DI NOTE: SLA batteries lose Im Iron Phosphate (LiFePo); batteries, wired in parallel 375W 2 12VDC only	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor 24VDC elow regarding installing afterma N Rail to mount additional access up to 50% of stored energy in ten batteries are not included with th	ithm 24VDC rket inverters. ories and other equipment peratures lower than 3 e solar kits. Parallel or series 375W 4 12 or 24VDC					
Enclosure Interior dimensions Material Weight Mounting system Lockable Space for batteries Power Assembly Charge controller Solar voltage input Power output Mounting surface Operating temp Battery Bank Battery type Battery wiring Solar Panel(s) Wattage Number of panels Voltage output Panel wiring Wind rating	12VDC 12VDC 12VDC The power assembly -40° ~ +60° Celsius / Seale	MREC-AL5-600W Height: 30 in x N Inte 13 in : Advanced Max Power Po 24VDC NOTE: There is no AC or y y is pre-mounted to a back -40° ~ +140° Fahrenheit ed Lead Acid (SLA) or Lithiu If two 12VDC 300W 2 N/A 115 mph	Width: 22 in x Depth: 13 in; Powder coated alum 33 lbs; 14.97 Kg egrated pole/wall mounting st Lockable by padlock (not x 21 in x 19 in; 33.02 cm x 5 Dint Tracking (MPPT) with pr 24VDC outlet provided – see note be plate which also provides DI NOTE: SLA batteries lose Im Iron Phosphate (LiFePo); batteries, wired in parallel 375W 2 12VDC only Parallel	KBC-AL5-1200W 76.2 cm x 55.88 cm x 7.62 cm ninum g system (included) t supplied) 3.34 cm x 48.26 cm e-installed advanced charge algor 24VDC elow regarding installing afterma N Rail to mount additional access up to 50% of stored energy in ten batteries are not included with th 300W 4	ithm 24VDC rket inverters. ories and other equipmenters lower than 3 e solar kits. Parallel or series 375W 4 12 or 24VDC 2x2 in series; paralle 0 mph					
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