BOATING



ENSURE YOUR ELECTRICAL SECURITY

Uniteck boating kits guarantee the best electrical autonomy on the market while preserving the lifespan of your battery.

The latest-generation MPPT controllers test your battery, recharge it to 100%, desulfate it, delaminate it, maintain its charge and improve its service life.

The optimized MPPT program coupled with the fastest microprocessor on the market checks in real time (every 100 ms), the maximum power point of the panel.

This guarantees up to 40% more energy in the winter and 15% more energy in the summer compared to a PWM controller, even in changing weather conditions.
Thanks to their Back Contact technology, the UNITECK BC solar panels have the best performances on the market making it lighter and having less wind resisitance. Equipped with 6mm^2 cables with quick solar connectors fitted as standard, Uniteck kits are easily upgradable for more power.

The adjustable and tiltable pushpit mounting brackets optimize electrical performance with up to 50% more energy than an identical fixed installation.

	Your electrical devices	Voltage (V)	Average current (A)	Efficiency	Power (Watt)	Time of use (h/day)	Consumption/ day (Wh/day)	Battery capacity (Ah/ day)	Sailing boat <7,5m (<24 feet)	Sailing boat >8m (>26 feet)
Lighting	Square	12	1	1	12	6	72	12	•	–
	Bunk (consumption/bunk)	12	1	1	12	6	72	12	• X1/2	• X2/6
	Bathroom + Kitchen	12	2	1	24	1	24	4	–	•
	Deck searchlight (35W)	12	3	1	36	1	36	6	–	•
	Chart table	12	0,4	1	5	1	5	1	–	•
	Instruments (compass...)	12	0,4	1	5	6	30	5	–	•
Security	Navigation lights (25W)	12	2	1	24	10	240	40	•	•
	Anchor lights (10W)	12	0,8	1	10	8	80	13	•	•
	Stern lights (10W)	12	0,8	1	10	10	100	17	•	•
	Bilge pump 40W	12	3,5	1	42	0,3	11	2	•	•
	VHF on standby/emitting	12	0,1/5	1	1,2/60	24/0,5	30/30	5/5	–	•
Electronics	Mobile phone	230	0,1	0,8	30	1	30	5	•	•
	Pilot	12	0,5	1	60	6	360	1	–	•
	Navigation system	12	0,8	1	10	8	80	13	–	•
	Radio/CD player	12	1	1	12	1	12	2	•	•
	Loch Speedo	12	0,1	1	1,2	8	10	2	–	•
	Radar	12	3	1	36	8	288	48	–	•
	Simple GPS	12	0,3	1	3,7	8	30	5	•	
	card reader	12	2	1	24	8	190	32	–	•
	Sounder	12	0,2	1	2,4	8	20	3	–	•
	Microcomputer on standby/ turned on	230	0,8	0,02/0,3	5/90	23/1	115/90	20/15	•	•

Calculation explanation ————————(V) —— × ———(A)——— ÷ –(%)—— = ——(W) × ——(h/d)—— = – (Wh/d) ÷ 12 V ÷ 50%* = (Ah)

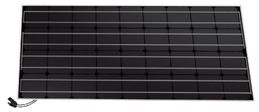
*Recommended self-discharge battery ratio



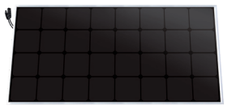
SOLAR KITS BOATING

PANELS

Two technologies to be adapted to the space constraints and the desired design.



MONOCRISTALLINE



BACK CONTACT

MOUNTING BRACKET

Several types of solar panel mounting depending on the chosen location.



RECLINABLE & STEERABLE FOR PUSHPIT FIXATION



FIXED FOR DOUBLE BAR ARCH



TILTABLE FOR PUSHPIT AND ARCH MOUNTING

CONTROLLER

MPPT technology to optimize panel production and battery charging

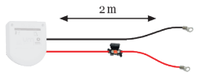


MPPT WITH LCD DISPLAY

CONNECTICS



PANEL > CONTROLLER



CONTROLLER > BATTERY



CABLE PASSAGE

UNITECK

- Design and performance, high efficiency cells with black back sheet
- Excellent impact and weight resistance (tempered glass 3.2 + aluminium frame)
- TÜV certified waterproof junction box with hot-spot protection
- Exceptional output even under weak light

- 20 to 50% performance gain by tilting the panel
- Corrosion resistant (Marine stainless steel)
- Adaptable to all balconies from Ø 20 to 45 mm

- Advanced MPPT technology (Additional energy: 40% in winter and 15 in summer)
- Tests, charges to 100%, desul-phates, destratifies, maintains charge and improve the life span.
- Perfect charge for all types of lead batteries (AGM, GEL, liquid)

- Quick and easy to install, connectors already crimped, ready to use
- No power loss (tinned copper cable + adapted section)
- Cable and accessories resistant to UV and extreme conditions (-40 °C to 120 °C)





SET UP YOUR BOATING KIT











		Pushpit				Arch							
		20 W	50 W	80 W	100 W	100 W	150 W	200 W	2 x 100 W	300 W	2 x 150 W	400 W	600 W
Solar panel													
UNISUN 20.12M	ref. 0071	×1											
UNISUN 50.12M	ref. 0088		×1										
			or										
UNISUN 55.12BC	ref. 1238		×1										
UNISUN 80.12M	ref. 0095			×1									
UNISUN 100.12M	ref. 0446				×1	×1			×2				
					or	or			or				
UNISUN 120.12BC	ref. 1245				×1	×1			×2				
UNISUN 150.12M	ref. 0453						×1				×2		
							or	or			or	or	
UNISUN 200.24M	ref. 1334							×1				×2	
UNISUN 165.12BC	ref. 1528						×1				×2		
UNISUN 200.12BC	ref. 3324							×1				×2	
UNISUN 300.12M	ref. 2013									×1			×2
Mounting bracket													
UNIFIX 20.1WB	ref. 1009	×1											
UNIFIX 50.2WB	ref. 1016		×1										
UNIFIX 100.1WB	ref. 1153			×1	×1								
UNIFIX 100WP	ref. 0859					×1		or	×2			or	
UNIFIX 150WP	ref. 0514					or	×1	×1	or		×2	×2	
								or			or		
UNIFIX 200WP	ref. 1450								×1				×2
UNIFIX 300WP	ref. 2136									×1			
UNIFIX 100.1WPB	ref. 2792					×1							
UNIFIX 150.1WPB	ref. 2808							×1					
UNIFIX 200.1WPB	ref. 2815								×1			or	
UNIFIX 300.1WPB	ref. 2822										×1	×1	×2
Wiring													
UNICONNECT 1.6	ref. 0200	×1	×1	×1	×1	×1	×1	×1	×1	×1	×1		
Parallel connectors kit	ref. 0231								×1		×1	×1	×1
Battery connection kit 16.2M	ref. 1535											×1	×1
UNICABLE 681BR	ref. 0880											×1	×1
UNICABLE SP 2,5.0,5	ref. 1740	×1											
Roof-pass	ref. 0248											×1	×1
Charge controller													
UNIMPPT 60/10.24L	ref. 3287	×1	×1	×1	×1	×1	×1						
							or						
UNIMPPT 60/20.24L	ref. 3294						×1	×1	×1	×1	×1		
											or		
UNIMPPT 100/30.24L	ref. 3300										×1	×1	
UNIMPPT 100/40.24L	ref. 3317												×1
Produced power Wh/d (north-south of France)													
January/February		16-24	40-60	64-96	80-120	80-120	120-180	160-240	160-240	240-360	240-360	320-480	480-720
March/October		60-80	150-200	240-320	300-400	300-400	450-600	600-800	600-800	900-1200	900-1200	1200-1600	1800-2400
July/August		100-140	250-350	400--560	500-700	500-700	750-1050	1000-1400	1000-1400	1500-2100	1500-2100	2000-2800	3000-4200
Injected capacity Ah/d (north-south of France)													
January/February		1-2	3-5	5-8	6-10	6-10	10-15	13-20	13-20	20-30	20-30	26-40	40-60
March/October		5-7	12-17	20-26	25-33	25-33	38-50	50-67	50-67	75-100	75-100	100-133	150-200
July/August		8-12	20-29	33-46	42-58	42-58	62-87	83-116	83-116	125-175	125-175	166-233	250-350