

## Hut Kit Multi –Eco/Classic

### Proven reliability

The full bridge plus toroidal transformer topology has proven its reliability over many years. The inverters are short circuit proof and protected against overheating, whether due to overload or high ambient temperature.

### High start-up power

Needed to start loads such as power converters for LED lamps, halogen lamps or electric tools.

### ECO mode

When in ECO mode, the inverter will switch to standby when the load decreases below a present value (min load: 15W). Once in standby the inverter will switch on for a short period (adjustable, default: every 2,5 seconds). If the load exceeds a present level, the inverter will remain on.

### Search Mode

When Search Mode is 'on', the power consumption of the inverter in no-load operation is decreased by approx. 70%. In this mode the Multi, when operating in inverter mode, is switched off in case of no load or very low load, and switches on every two seconds for a short period. If the output current exceeds a set level, the inverter will continue to operate. If not, the inverter will shut down again.

### Programmable relay

By default, the programmable relay is set as an alarm relay, i.e. the relay will de-energise in the event of an alarm or a pre-alarm (inverter almost too hot, ripple on the input almost too high, battery voltage almost too low).

### Remote on/off

A remote on/off switch can be connected to a two-pole connector, or between battery plus and the left-hand contact of the two-pole connector.

### DC connection with screw terminals

No special tools needed for installation





Technical Data			
Sl.No	Technical Description	Hut Kit Multi - Eco	Hut Kit Multi - Classic
<b>Solar PV Module</b>			
1	Nominal Power Capacity (Wp)	320	520
2	Roof Area Required (Sq. Ft)	30	50
3	Estimated Daily Usable Energy (kWh)	1280	2080
<b>Inverter</b>			
4	Nominal Input DC Voltage (Vdc)	12	24
5	Input voltage range (Vdc)	9.5 – 17	19-33
6	'Heavy duty' AC output -Current (A)	16	
7	Output - Single Phase AC (3 wire)	Voltage : 230 V (± 2%), Frequency: 50 Hz (± 0.1%)	
8	Continuous output power (VA)	500	500
9	Peak output power (W)	900	900
10	Maximum efficiency (%)	90	91
<b>Battery Charger</b>			
11	AC Input - Single Phase (3 wire)	Voltage range: 187-265V, Frequency: 45 – 65Hz, Power factor: 1	
12	Charge voltage 'absorption' (V)	14.4	28.8
13	Charge voltage 'float' (V)	13.8	27.6
14	Storage mode (V)	13.2	26.4
15	Charge current (A)	20	10
16	Battery temperature sensor	Yes	
17	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, Input Voltage Ripple too high	
<b>Solar Charge Controller</b>			
18	Model	MPPT 75/15	MPPT 100/20
19	Maximum output current (A)	15	20
20	Maximum PV open circuit voltage (V)	75	100
21	Maximum efficiency (%)	98	
22	Self-consumption (mA)	20	10
23	Charge voltage 'absorption', (V)	14.4	28.8
24	Temperature compensation (mV/°C)	-16	-32
25	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, Input Voltage Ripple too high	
<b>Common Characteristics</b>			
26	Operating temp. range	-20 to +50°C (fan assisted cooling)	
27	Humidity (non-condensing) (%)	max 95	
<b>Standards</b>			
28	Safety	EN-IEC 60335-1, EN-IEC 60335-2-29, EN 62109-1	
29	Emission / Immunity	EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3	
		IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3	
30	Road vehicles	ECE R10-4	
<b>Battery</b>			
31	Type	Solar Tubular GEL	
32	Operating Voltage (V)	12	24
33	Capacity (Ah)	75	75
34	Battery Backup (at full load) *	2 Hrs	

\* Higher backup battery also can be supplied

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