SOLAR CORONA ENERGY
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Hut Kit – Eco/Classic

VE.Direct communication port

Fully configurable:

- Low battery voltage alarm trip and reset levels
- Low battery voltage cut-off and restart levels
- Dynamic cut-off: load dependent cut-off level
- Output voltage 210 - 245V
- Frequency 50 Hz or 60 Hz
- ECO mode on/off and ECO mode sense level
- Monitoring: In- and output voltage, % load and alarms

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.

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.

To transfer the load to another AC source: the automatic transfer switch

For our low power inverters, we recommend our Filax Automatic Transfer Switch. The Filax features a very short switchover time (< 20 milliseconds) so that computers and other electronic equipment will continue to operate without disruption.

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.

High start-up power

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

DC connection with screw terminals

No special tools needed for installation

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Technical Data			
Sl.No	Technical Description	Hut Kit Eco	Hut Kit Classic
Solar PV Module			
1	Nominal Power Capacity (Wp)	260	320
2	Roof Area Required (Sq. Ft)	25	30
3	Estimated Daily Usable Energy (kWh)	1040	1280
Inverter			
4	Cont. power at 25°C (1)	250VA	
5	Cont. power at 25°C / 40°C	200 / 175W	
6	Peak power	400W	
7	Output AC voltage / frequency (adjustable)	230VAC or 120VAC +/- 3% 50Hz or 60Hz +/- 0,1%	
8	Input voltage range	9.2 - 17 / 18.4 - 34.0 V	
9	DC low shut down (adjustable)	9,3 / 18,6 / 37,2V	
10	Dynamic (load dependent) DC low shut down (fully configurable)	Dynamic cut-off	
11	DC low restart and alarm (adjustable)	10,9 / 21,8 / 43,6V	
12	Battery charged detect (adjustable)	14,0 / 28,0 / 56,0V	
13	Max. efficiency	87 / 88 / 88%	
14	Zero-load power	4,2 / 5,2 / 7,9W	
15	Default zero-load power in ECO mode (default retry interval: 2,5 s, adjustable)	0,8 / 1,3 / 2,5W	
16	ECO mode stops and start power setting	Adjustable	
17	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, DC Ripple too high	
Solar Charge Controller			
18	Model	MPPT 75/10	
19	Maximum output current (A)	10	
20	Maximum PV open circuit voltage (V)	75	
21	Maximum efficiency (%)	98	
22	Self-consumption (mA)	20mA	10mA
23	Charge voltage 'absorption', (V)	14.4	28.8
24	Temperature compensation (mV/°C)	(-16 mV / °C resp. -32 mV / °C)	
25	Protection	Output Short Circuit, Overload, Battery Voltage too high, Battery Voltage too low, Temperature too high, Input Voltage Ripple too high	
Common Characteristics			
26	Operating temp. range	(-40 to +65°C (fan assisted cooling) Derate 1,25% per °C above 40°C	
27	Humidity (non-condensing) (%)	max 95%	
Standards			
28	Safety	EN-IEC 60335-1 / EN-IEC 62109-1	
29	EMC	EN 55014-1 / EN 55014-2 / IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3	
30	Automotive Directive	ECE R10-4	
Battery			
31	Type	Solar Tubular GEL	
32	Operating Voltage (V)	12	24
33	Capacity (Ah)	80	60
34	Battery Backup (at full load) *	2 Hrs	
* Higher backup battery also can be supplied			

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