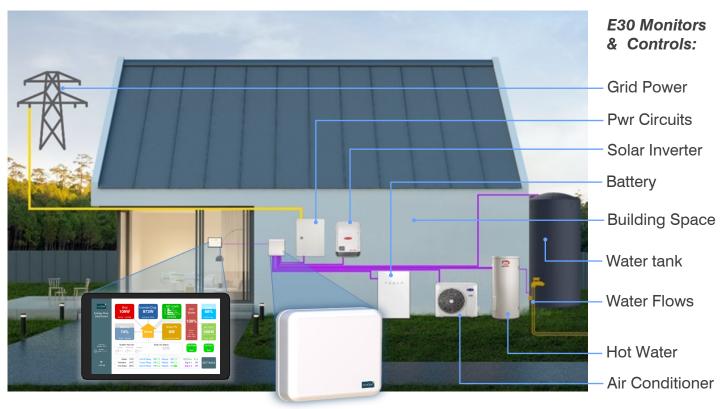


F30 Energy Flows Dashboard + Controller

With Solar Air Conditioning

**ecoCool**'s Energy Flow Dashboard<sup>™</sup> fuses energy flows in your home onto a visual display, allowing you perfect visibility of your energy. Control your air conditioning, electrical loads, energy use and costs.







## **E30 System Schematic**



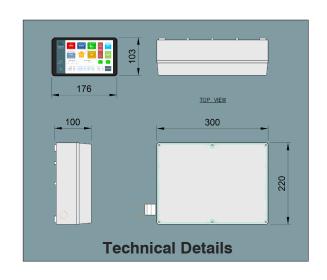
## Energy Flow Dashboard™

The E30 Energy Flow Dashboard<sup>™</sup> display & controller link to your household systems like switchboard, solar, battery, air-conditioning, drinking water, grid & appliances, for 'energy visibility', programming and smart decision-making.

You can run your Hot-Water system only when solar reaches a set output. Or schedule your pump to run when your tank reaches a set level. Or simply turn on a remote pump. The E30 Save you energy, saves money, and saves time.

## **Solar Air Conditioning**

The E30 Solar Air Controller is designed to use as much solar PV power as possible, to aim for 100% renewable air conditioning, or when off-grid, to maintain battery life and to use otherwise unused solar power. Your own Air conditioner, becomes a renewable *Solar Air Conditioner*.





## E30 Energy Flows Dashboard + Controller With Solar Air Conditioning

E30.300.01	Specifications	Hardware Details
Supply voltage AC:	230V ac / 50Hz 0.25A max	2 x 2.5mm2 Terminals
Supply voltage DC:	5-18V dc 4A max, @12V dc	2 x 2.5mm2 Terminals
Power Consupmtion:	10-15w nom.	
Outputs		
Relay.1 12V driving outputs 1A:	1	eg to Finder base 97.01 &16A relay
Relay.2-4 12V outputs extra 1A:	3 (DRM Terminals)	Jumper / Software setting to use
Relay.5-6 outputs Venus 6A:	2 on Venus Device	eg Victron Cerbo Relay 1,2 (6A)
Solar Air conditioning:	3 x DRM control terminals	Cat 5/6 cable to Air Con
Display: Touchscreen:	HDMI / USB	See accessories, touchscreen
Display: Tablet supplied:	Wifi - browser based display	Wifi Tablet or networked PC/Laptop
Inputs		
CT AC sensor Inputs:	0-50A	Clamp Type
Temperature Inputs:	3 x HW Sensor (2.5mm2 S/T)	DS18B20 type, waterproof
Water flow/temp:	1 x Pulse based flow, NTC temp	12m 5-core cable supplied
Tank Sensor:	1x Ø80mm Tank Top Sensor	Self adhesive, drill 10mm hole
Digital Inputs:	2 (2.5mm2 S/T)	Short Input to Ground, for 'On'
Controller:	Raspberry Pi 3B+, Custom Hat	
Enclosure type:	Polycarbonate, IP55 rated	Wall Mounting Holes
Enclosure colour:	Light Grey, RAL7035	
Communications		
Ethernet Ports	4 Available	5 Port Gigabit ethernet switch
Supply voltage Network Switch:	12Vdc (0.3A)	
Wifi:	Local (5m) wifi, or via router	Add ethernet-router for wifi range
Wifi antenna:	Optional wifi dongle, USB	D-Link DWA 131 / Nano
Audible Alarm:	Audible Alarm 85dB	
Connection options:	Ethernet, Modbus TCP, USB	Also: 2 wire Digital in/out, DRM
Security:	Wifi Password Protected	
Control		
Pumps	Via Relay 1-6 (Man/Sched/Event)	Actuate secondary relay for AC/DC
Electrical Loads	Via Relay 1-6 (Man/Sched/Event)	Actuate secondary relay for AC/DC
Connected Equipment	In Victron network	Via VE.Bus, VE.direct, Modbus TCP
Dimensions		
	300L x 220W x 100H mm	
Weight:	1.2 kg	
IP Rating:	-	IP55: Suitable for outdoors
Standards		
Standards:	AS/NZS 60335.1, AS/NZS 61000.6.3	Electrical safety/EMC
Warranty:	5 years	Actuate secondary relay for AC/DC
Accessories		
7" Touchscreen:	7" Touchscreen, Mounting, Power	USB, Wifi, 1.5m, Power Kit, HDMI Opt.
CT Sensors:	Spare 0-50A CT Clamp sensor	For AC load sensing, AC circuits
HW Temp Sensors:	Spare DS18B20 Temp sensor	For Hot Water or other use
Switch for Loads	Hard switch for load on/off	Programmable/Manual control
Compatible Controller Systems:	Victron GX Devices, including Venso	
	Any 230V a.c. solar inverters/batteries/HWS are compatible, see Manual	

