



YARL TECHNOLOGIES PTY LTD

ENERGY TRACKER

Energy Tracker Model	8C
Computer	Raspberry Pi 2 Model B
Operating system	Raspbian
Application software	Python 3
Energy tracker application	Version 1. 2015
Power rating	5V DC, max 1A
DC power adapter	5V DC, 2A switch mode power supply. Input voltage range is 100 to 240 AC, 50/60Hz
Ports	4 USB, 1 HDMI, 1 Ethernet
Enclosure	Folded Aluminum
Dimension	235 x 270 x 110 mm
Weight	3.300 kg
Operating Temperature	0 – 40 °C (32 – 104 °F)
Operating Humidity	10 – 90%
Power source channels	
Number of channels	8 independent channels
Isolation	The source voltage sensing uses optical and current sensing uses electromagnetic isolation. All channels are floating with respect to the energy tracker chassis and ground connection.
Sensing circuit protection	Protected by 33V TVS (transitional voltage suppressor), 24V 1W Zener diode, and 1A replaceable quick blow fuse (1A 20mm, 5mm dia.)
Voltage sensor type	DC
Voltage sensor range	7.5V to 24V. Max. 25V
Voltage sensing resolution	10 bit ADC over 0 to 24V range
Current sensor type	DC
Current sensor range	0A to 15A. Max. 25A
Current sensing resolution	10 bit ADC over 0 to 15A range
Circuit breaker type	B type (trip current x3 to x5 rated current for 100 ms)
Circuit breaker rating	10A continuous, 15A (typically few minutes)
Connection type	4mm banana socket rated at 15A. Red: positive, Black: negative.
Voltage and current measurement precision	Better than +/- 5% of maximum rated voltage and current.