

K28 Paragon™ - Remote (IoT) Equipment Power Solar / LoRaWAN

The K28 Paragon™ remote solar equipment power station is IoT (Internet of Things) enabled. You can monitor, control or even maintain your remote electrical equipment via an internet connection, over the IoT LoRaWAN* network in Australia. (* LoRaWAN - Long Range Wide Area Network)

Connect loads up to 800 watts, with power consumption of up to 1.1kWH per day per panel. Your equipment can maintain operation overnight: up to 0.5kWH battery power.

Read more: www.ecocool.com.au/loT/K28.

Feature	Specification
Network / Frequency	LoRaWAN / 915Mhz
Transceiver Range	Up to 15km (Ext Ant.)
Control system programming	Mobile Phone Wifi I/face
Data access to the controller	Via internet
Microprocessor driven Relays	3 x Relays, 3 Amps max.
Programmable timer/Schedules	Day/Week programs
Standard Sensors	1 x Amb. Temp. / Light
Programmable Sensors	5 x 1-10V inputs
Battery Storage	20 - 80Ah
Max persistent Power available	150W/ 260W/ 560W/ 850W
Peak Power available (Briefly)	350W/ 700W/ 1500W/ 2200W
Max daily power available	0.4kW to 5.3kW §
Safety	Optional safety switch
Power (Hard wired or Plug/Skt)	230V AC / 50Hz 12/24Vdc
Standard (User Supplied) Pole	89mm SHS (2/ 3.5/ 5mm)
Solar Panel Angle (30° Std)	20/30/40/X Degrees †
Solar Panel Sizes	80/ 150/ 270/ 540/ 810/ 1060W
Corrosion Resistant Hardware	Galvanised Steel
Product Weight	20 - 30kg

§ Depending on Panel capacity, season, latitude & environment.

Part #	Enclosure Size	Battery	Solar	Inverter	Nom Pwr	WHD/ Night
K28.180.1	Enclosure Size 500h x 400w x 200d Min.	1 x 20AH, 12V	80W /12v	180/12v	150W	400 / 120 WH
K28.180.2	Enclosure Size 500h x 400w x 200d Min.	2 x 20AH, 12V	80W /12v	180/12v	150W	400 / 240 WH
K28.375.1	Enclosure Size 500h x 400w x 200d Min.	1 x 20AH, 12V	150W /12v	375/12v	260W	750 / 120 WH
K28.375.2	Enclosure Size 500h x 400w x 200d Min.	2 x 20AH, 12V	150W /12v	375/12v	260W	750 / 240 WH
K28.800.1	Enclosure Size 500h x 400w x 200d Min.	2 x 20AH, 24V	270W /24v	800/24v	560W	1100 / 240 WH
K28.800.2	Enclosure Size 500h x 500w x 250d Min.	4 x 20AH, 24V	270W /24v	800/24v	560W	1100 / 480 WH
K28.800.3	Enclosure Size 500h x 500w x 250d Min.	4 x 20AH, 24V	540W /24	800/24v	560W	2700 / 480 WH
K28.1200.1	Enclosure Size 500h x 500w x 250d Min.	4 x 20AH, 24V	810W /24	1200/24v	850W	4050 / 480 WH
K28.1200.2	Enclosure Size 500h x 500w x 250d Min.	4 x 20AH, 24V	1060W /24	1200/24v	850W	5300 / 480 WH

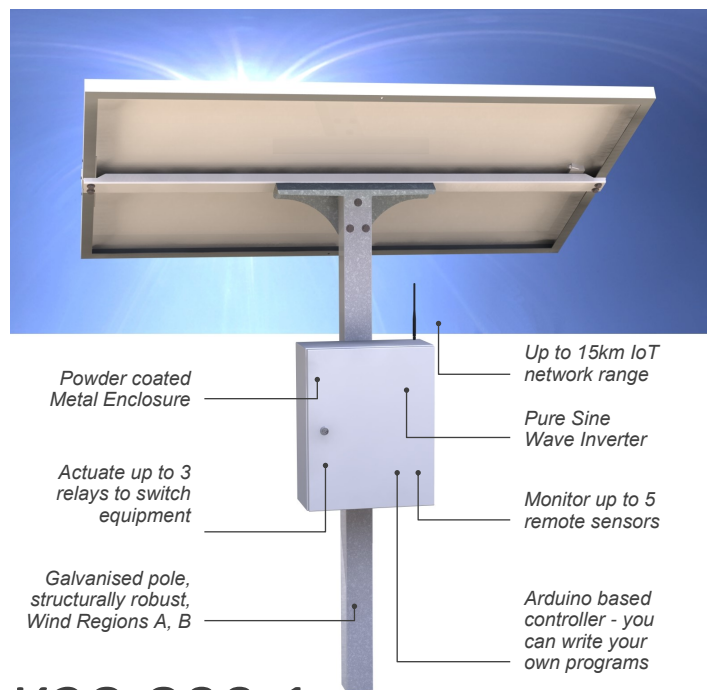
† Optimum solar panel tilt angle is equal to site latitude:

20° Angle: Kununurra WA 15.8South >> Carnarvon WA 25South
 20° Angle: Innisfail QLD 17.5South >> Harvey Bay QLD 25South
 30° Angle: Harvey Bay QLD 25South >> Jervis Bay NSW 35South
 30° Angle: Carnarvon WA 25South >> Albany WA 35South
 40° Angle: Jervis Bay NSW 35South >> Hobart TAS 43South

Enclosure Sizes (mm)

500h x 400w x 200d
500h x 500w x 250d
700h x 500w x 250d
800h x 600w x 250d
1000h x 600w x 250d

Quick, Cost effective, Connected



K28.800.1

Remote Pumps, data takers, sensors, or electrical equipment, on the IoT network

- Pumps:** your bore or transfer pump operating on up to 1kWH per day of solar power per solar panel.
- Data Taking:** your Data Taker (weather, water, soil, or science) operating on pure sine wave solar power.
- Sensors:** your air, water, temperature or other sensors attached to standard 0-10Vdc inputs, or program your own on the Arduino control board.
- Other applications:** remote equipment, 12/24 volt installations, lighting, irrigation, golf courses, council parks, building services & various other applications.

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*Information accurate at time of publication, subject to change.

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