

CP30 – Solar Pole



- Solar and Wind solution for Off Grid ICCP
- Standard options available 12V 2A or 24V 1A
- Battery input with Solar and Wind charging
- In-built interrupter supplied as standard, can be triggered by external source*
- Ultra-low ripple for enhanced accuracy
- Contact Voltage, current and potential control modes
- Optional upgrade for remote monitoring and control
- Simple to use multi-functional display
- Switch mode power supplies allowing control of output
- Up to 5 days autonomy with no recharge of batteries

INPUT

DC Voltage	: 24VDC
Power	: 44W
Frequency	: 45 – 66Hz
Power Factor	: >0.98 at 40-100% load
Efficiency	: >90% at >50% output power
Soft start	: power on ramp-up time <5 secs
Protection	: Surge protection varistors : Inrush current limiting circuit

OUTPUT

Standard Outputs	: 12V, 0-2A(1mA steps) : 24V, 0-1A(1mA steps)
Voltage range	: 10mV to full volts (10mV steps)
Current range	: 10mA to full current (1mA steps)
Potential range	: 0V to -5V structure wrt ref cell
Ripple	: <20mV or 0.2% at full load
Dynamic Resp.	: Set point change controlled by software ramp

PROTECTION

Input	: Surge protection varistors : Inrush current limiting circuit : 8A Internal fuse (Slow blow)
Output	: Surge suppression on line : EMC filtering
Over temperate	: Output power reduced

INDICATORS AND ALARMS

All Alarms are indicated by an LED. Relay contact/closure and/or digital comms to external monitoring

Output open circuit	: Always active
High temperature	: Always active
Low output volts	: User select/program
High output volts	: User select/program
Voltage out of range	: User select/program
Low output current	: User select/program
Under protection	: User select/program

SYSTEM OPERATION

- Constant potential mode
- Constant current mode
- Constant voltage mode
- Interrupter mode (standard)
- User programming module
- Digital metering

COMPLIANCE

Safety	: IEC 60950
EMC	: IEC62109 : EN62109-1
Emissions	: 55014-1
Immunity	: 55014-2

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MECHANICAL

Size	: Pole - 6100mm nominal (height) Tower base –600mm x 500mm x 1200mm
Weight	: Estimated 600kg
Concrete base	: 2000mm x 2000mm x 1000mm

ENVIRONMENTAL

Cooling	: Natural Convection
Temperature	: -20°C to +75°C operational : -40°C to +85°C transport/storage
Relative Humidity	: 0-100%
Altitude	: Depending on location
Autonomy	: >4 days with no charge

INTERFACES

Battery power input	: Single-phase line connection
Main power output	: Anode drive (wrt Structure)
Potential Input	: For connection to reference cell
Discrete Control	: For external shutdown
Options modules	: For system enhancement

OPTION MODULES/UPGRADES

GPS	: For Interrupter synch
USB Port	: For local communication
TCP/IP	: For remote control
GSM *	: For remote control
SMS *	: Remote Alerts
*2 years standard SIM contract	

CUSTOM BUILT SOLUTIONS

We are able to supply custom-built systems with higher current outputs, alternative voltages, multiple zones and a range of different enclosures.