

NO-BREAK POWER SUPPLY

DESCRIPTION

DC BOX Smart is an integrated non-break DC uninterruptible power supply. DC BOX supports clean energy sources such as solar and wind power. DC BOX does not have switching systems, and the output is not interrupted at any time.

Due to its internal topology, it is suitable for use in low or medium power applications with long autonomy. DCBOX supports integration with external IoT devices and message relaying to other platforms.

APPLICATIONS

- Radio links
- PAYG systems
- Communication Shelters
- Security cameras
- PLCs
- Emergency lighting
- Park lighting
- Rural lighting
- Bus stops
- Signalling beacons
- Access points
- SOS systems
- Alarm systems
- Electrical manoeuvring
- SOHO connectivity
- Off-grid IoT systems
- Public signage
- Domotics
- Traffic lights
- Speed cameras
- etc.

FEATURES

- Multiple input types
- MPPT for solar panels
- Support for wind generators
- Configurable 12/24VDC output
- Analogue and digital inputs and outputs
- Overload and short circuit protection
- Internal voltage, temperature and current monitoring
- Remote management: Wi-Fi, Ethernet.
- Intelligent output management: load balancing
- Support for intelligent lighting
- Support for lead-acid, Lithium and custom batteries
- Natural cooling (fanless)



www.antubay.com Rev. 2.03 EN Pag. 1/2

DC BOX SMART - DATASHEET



SPECIFICATIONS

PARAMETERS		DC-BOX SMART
Inputs	MPPT/DC	18-60Vdc / <=480W (1)
Regulated outputs	Output	12/24Vdc <=150W
	Rated current @12Vdc	13A
	Rated current @24Vdc	6.5A
	Regulation	Vdc +/- 1%
	Ripple	+/- 200mv
Battery Charger	Charging modes	Float / 3 stages
	Nominal Voltage	12/24Vdc
	Current	<=20A/h
Battery	Туре	Pb-Ac/Li-lon/LiFePO4/Custom
	Nominal voltage (2)	12/24Vdc
Protections	Inputs	Current limit
	Outputs	Short-circuit and over current
	Battery	Under voltage
	Temperature	Device critical
	Energy	End of power
Digital I/O	Input	1 Digital
		1 Temperature sensor
	Output	1 PWM/Digital
Communications		Wi-Fi, Bluetooth, Ethernet
Measurements	Inputs	Voltage and Current
	Outputs	Voltage and Current
	Battery	Voltage and Current
	Input Power	Calculated
	Output Power	Calculated
Reset	Output	Watchdog/Remote
Working environment	Humidity	20- 90% Non-cond. RH
	Temperature	-30 to +70°C
Mechanical	Enclosure Material	Anodized aluminium
	Dimensions	W x H x D (mm) 192 x 38 x 142
	Weight	950g

⁽¹⁾ Panels can be placed even in series or parallel, as long as the open circuit voltage does not exceed 60Vdc.

www.antubay.com Rev. 2.03 EN Pag. 2/2

⁽²⁾ Due to the current limit, to achieve maximum charging power it is recommended to use nominal 24Vdc battery banks.