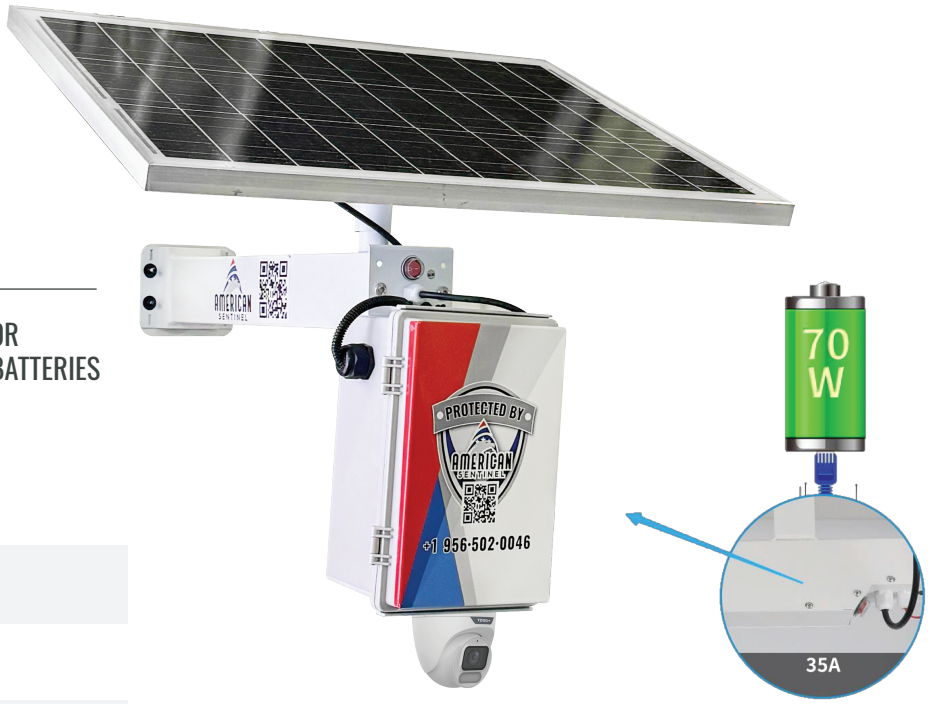
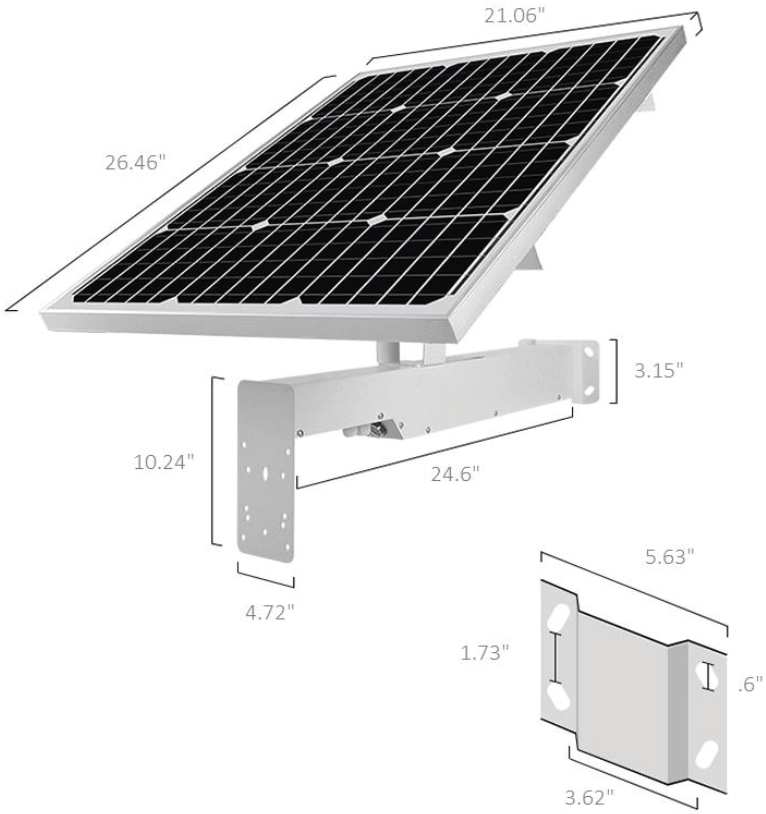
TDSB35

60WH SOLAR PANEL PROVIDES A CHARGE FOR
THE 700W SINGLE-CRYSTAL SILICON CELLS BATTERIES



Peak power (Pmax):	60W
Crest voltage (Vmp):	18(V)
Short-circuit current:	1.83(A)
Glass:	3.2mm (Ultra-white textured tempered glass)
Test criteria:	Irradiance 1000W/M2
Max system voltage:	600V
Solar Cell Quantity:	36 (4*9)
Frame:	Aluminum alloy frame Strong impact resistance
Operating current:	1.66(A)
Open-circuit voltage:	21.4(V)
Dimension:	26*21*1(inch)
Weight:	8.4lb



TDSB35 • SOLAR CONTROLLER

1. MCU control, ultra-low power consumption when standby.

2. The charging principle adopts a three-stage charging algorithm, which performs a balanced charging of the battery once a week, effectively preventing the battery from being unbalanced and vulcanized, and improving the service life of the battery.

3. Power MOSFET as an electronic switch without any mechanical switch, no protection action delay

4. Green and Red LED light indication for charge and discharge; discharge light control + timing, pure light control, manual adjustment on the ALWAYS ON mode

Charging Mode:	PWM mode
System Current:	3A
System Voltage:	7.4V, 11.1V, 14.8V
Power Input:	≤18W, ≤18W, ≤36W
Input withstand voltage:	≤25V
Overload protection/ Short circuit:	1.5 times rated current delay for 5 minutes off,
Protection:	Automatic recovery after 5 minutes; ≥3 times rated current short circuit protection action
Charge loop drop:	≤0.7V
Discharge circuit voltage drop:	≤0.1V
Overvoltage protection voltage:	5.5 (3.7V), 9.4 (7.4V), 13.6 (11.1V), 17.8 (14.8V)
Overvoltage recovery voltage:	5.0 (3.7V), 8.9(7.4V). 13.1 (11.1V), 17.3 (14.8V)
Charge cut-off Voltage:	4.2 (3.7V), 8.4(7.4V), 12.6 (11.1V), 16.8 (14.8V)
Over-discharge protection Voltage:	3.2 (3.7V), 6.0(7.4V), 9.0 (11.1V), 12.0 (14.8V)
Over-Discharge Recovery Voltage:	3.7 (3.7V), 7.4(7.4V), 11.1 (11.1V), 14.8 (14.8V)
Charging Return Voltage:	3.7 (3.7V), 7.4(7.4V), 11.1 (11.1V), 14.8 (14.8V)
Daytime identification voltage:	3.0 (3.7V), 3.5 (7.4V), 7 (11.1V/14.8V)
Night identifying voltage:	1.0 (3.7 V), 1.5 (7.4V), 3 (11. 1V/14.8V)

Operation Temperature:	-30°C~+55°C
Storage Temperature:	-45°C~+70°C
Operating Relative Humidity:	≤90%RH, no condensation
IP Grade:	IP30
External Dimensions:	2.1*2.7*.86 inch
Installation Cabling:	AWG22~14/2mm^2
Weight:	0.032kg