

# TDSB35

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



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

### Solar Controller Specs



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 <sup>2</sup>
Weight	0.032kg

