

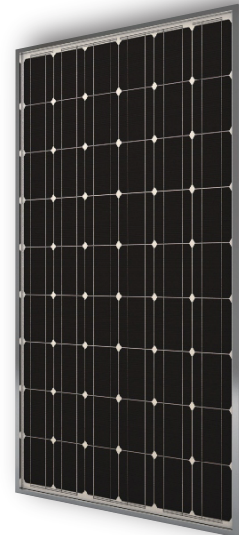
# Monocrystalline solar module

## Typical electrical characteristics

Characteristics	ZDNY-210C54	ZDNY-220C54	ZDNY-230C54
Max.Power (Pmax)	210Wp	220Wp	230Wp
Optimum Operating Voltage (Vm)	27.21V	27.83V	28.36V
Optimum Operating Current (Im)	7.72A	7.91A	8.12A
Open-circuit Voltage (Voc)	33.28V	33.36V	33.45V
Short-circuit Current (Isc)	8.33A	8.42A	8.56A
Cell Efficiency	16.3%	17.0%	17.8%

Note: the specifications are obtained under the Standard Test Condition(STC): 1,000W/ m<sup>2</sup> soarl irradiance,AM 1.5,Cell Temperature 25 C.

Solar Cell	Mono-crystalline 156x156mm
Output Tolerance (Pmax)	0~+3%
Number of cells	54 cells in series
Module Dimension	1482x992x45mm
Weight	19kg
Max. System Voltage	1000V(TUV)/600V(UL)
Max. Series Fuse Rating	15A
Temperature cycling range	(-40~85 C)
NOTC	47 C
Temperature coefficients of Isc	(+0.06%/C)
Temperature coefficients of Voc	(-0.35%/C)
Temperature coefficients of Pmax	(-0.4%/C)
Load Capacity	408pcs/20'GP
	908pcs/40'HQ



### Warranty

- 10-year product warranty.
- 12-year warranty at 90% power output.
- 25-year warranty at 80% power output.
- Product enforced by CHUBB Insurance

