## 510 Series





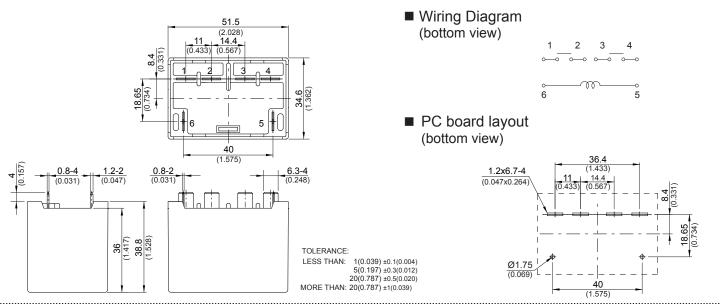
## **Features**

- Heavy duty 35~54A 277VAC power type.
- DPDM contact configuration with large contact gap 2.1mm & 3.0mm version.
- Conforms to European photovoltaic standard IEC 62109-1.
- Coil holding voltage can be reduced to 50~55%V of the nominal coil voltage for saving energy.
- High performance PCB power relay for photovoltaic power generation systems (solar inverter).
- Complies with RoHS-Directive 2011/65/EU.

Description	
Contact rating (Resistive load)	510 : 35A 240VAC T85 ; ON 1s /OFF 9s ; 20,000 ops. 510S : 48A 240VAC T85 ; ON 1s /OFF 9s ; 10,000 ops. 510H : 54A 240VAC T85 ; ON 1s /OFF 9s ; 10,000 ops.
Coil voltage	12~48VDC
Power consumption	At rated voltage : Approx. 2.4W (for 510, 510S); 5.4W (for 510H) At holding voltage : Approx. 0.6W (for 510, 510S); 1.35W (for 510H)
Contact material	Ag alloy
Contact gap	2.1mm Min. / 3.0mm Min.
Contact resistance (1)	100m $\Omega$ Max. (1A/6VDC by 4 pipes m $\Omega$ meter)
Operate time (1)	30ms Max.
Release time (1)	30ms Max.
Insulation resistance (1)	100MΩ Min. (DC 500V)
Dielectric strength (1)	Between open contact : AC 2000V, 50/60Hz 1 min.  Between contact and coilt : AC 4000V, 50/60Hz 1 min.  Between contact circuits : AC 2000V, 50/60Hz 1 min.
Life expectancy (Mechanical)	1,000,000 ops. (frequency 9,000 operations/hr)
Operating ambient temperature	-40~+85° C (no freezing)
Weight	Approx. 90 g

- Note: (1) Initial value. Operate and release time excluding contact bounce.
  - (2) Consider the heat of PCB is necessary with actual application.
  - (3) Please contact Song Chuan for the detailed information.

## **Outline Dimensions**



## Disclaimer