



- Electronically regulated charging regime: Boost and float charge
- Temperature compensation
- Deep discharge protection
- PWM series regulation, no panel short circuit
- Fully electronically protected: panel surge voltage,
- Wrong polarity at panel or battery, Overload and short circuit at load
- 3 LED indications: Charge status, SOC, LVD, Overload/Short-Circuit Common positive allows grounding
- PCB boards used moisture-proof technology

- The SC solar charge controller series is especially designed for small solar systems with the need of a low battery disconnect feature.
- Main differences to the preceding SC series: The regulation circuit provides now series regulation to prevent single cell overheat problems of short-circuited solar panels. The terminal section has been replaced by a rugged, well profane 4mm<sup>2</sup> terminal block.
- The melting fuse of the predecessor has been replaced by a fully electronically protected circuit.
- 2 LEDs and 1 Duo-LED to display charging in progress, battery SOC, load disconnect and overload status.
- Leisure and rural electrification systems are the typical applications for this product. It is a perfect solution for cost-sensitive systems which require state-of- the-art system management.

### Technical Date

| Type                          | Sc05                       | SC10 |
|-------------------------------|----------------------------|------|
| System voltage                | 12V                        |      |
| Max,charge/load current       | 5A                         | 10A  |
| Float charge                  | 13.7V                      |      |
| Boost charge                  | 14.5                       |      |
| Deep discharge protection     | 11.5V                      |      |
| Cut-off voltage               |                            |      |
| Overvoltage protection        | 12.5V                      |      |
| Max.PV voltage                | 30V                        |      |
| Temperature compensation      | -4mV/cell*K                |      |
| Grounding                     | Positive grounding         |      |
| Ambient operating temperature | -40--+50°                  |      |
| Battery type                  | Lead acid(GEL,AGM,flooded) |      |
| Weight                        | 200g                       |      |
| Dimensions(w*h*d)             | 116*104*37mm               |      |
| Type of protection            | IP22                       |      |