



ISOLER

Domestic controller

CHARACTERISTICS	ISOLER 10	ISOLER 20	ISOLER 30
PHYSICAL			
Length		172 mm	
Width		105 mm	
Depth		24 mm	
Weight		600 gr	
ELECTRICAL			
Nominal Voltage	Dual voltage: automatic selection 12/24V		
Maximum generation current allowed	10 A	20 A	30 A
Maximum load current allowed	10 A	20 A	30 A
Overload allowed	25%		
Autoconsumption	< 30 mA		
Maximum loss generation/load	< 1 W / 1 W	< 2 W / 2 W	< 3 W / 3 W
CONSTRUCTIVE			
Case	Stainless galvanised steel laminate		
Paint	Epoxy oven painted		
IP Rating	IP 32		
Type of regulation	Series type, controlled by microprocessor with solid state relay		
Battery selection	Modified SLI /Lead open tubular/gel tubular		
Regulation modes	Boost/floating/equalisation ⁽¹⁾		
Indication of charging modes	Boost, equalisation and loading by LED		
Temperature compensation	Yes (with external probe)		
Load disconnection due to low voltage	Yes (with automatic restart)		
Local alarms	High and low battery voltages, overload and short-circuit by LEDs		
Charge state indication	Full, half and empty battery		
Reverse current of battery protection	Optional, by low losses intelligent diode (MOSFET)		
Reverse polarity protection	Yes (generation, battery and load stages)		
Overload protection	Yes, temporised (load and generation stages)		
Short-circuit protection	Yes, instantaneous (load stage)		
Overvoltage protection	Yes, by varistors (generation, load and battery stages)		
Protection against battery disconnection	Yes		
Night detection switch	Optional		
Tropicalized circuits	Yes		
Temperature range	0 – 50 °C		
Short-circuit/overload disconnection restart	Manual reset		

⁽¹⁾ Equalisation is disabled in gel tubular batteries