



DOMESTIC CONTROLLER ISOLER / ISOLER D

ELECTRICAL CHARACTERISTICS

	ISOLER 10 / D 10	ISOLER 20 / D 20	ISOLER 30 / D 30
NOMINAL VOLTAGE	Dual voltage: automatic selection 12 / 24 V		
MAXIMUM GENERATION CURRENT	10 A	20 A	30 A
MAXIMUM LOAD CURRENT	10 A	20 A	30 A
OVERLOAD ALLOWED	25 %		
SELF-CONSUMPTION	< 40 mA		
MAXIMUM LOSS GENERATION/LOAD	< 168 mV / 130 mV	< 253 mV / 190 mV	< 310 mV / 230 mV

PHYSICAL AND MECHANICAL CHARACTERISTICS

DIMENSIONS	156 x 157 x 26,9 mm
WEIGHT	540 gr
PACKING CONDITIONS	1 controller / box
PACKING DIMENSIONS	215 x 185 x 50 mm
ENCLOSURE	Aluminium (bottom), stainless galvanized steel laminate (top)
PAINT	Epoxi oven painted
IP RATING	IP 32
MAXIMUM WIRE SECTION ALLOWED	6 mm ²



ALARMS AND PROTECTIONS

LOCAL ALARMS (LCD, LEDs AND BUZZER FOR ISOLER D; LEDs AND BUZZER ISOLER)	High and low battery voltage, overload and short-circuit, sensing line, temperature sensor, reverse polarity
REVERSE POLARITY BATTERY PROTECTION	By low losses intelligent diode (Mosfet)
REVERSE POLARITY PROTECTION	Yes (generation, battery, load and sensing lines)
OVERLOAD PROTECTION	Yes, load and generation lines ($I > 25\%$ of nominal current)
SHORT-CIRCUIT PROTECTION	Yes, instantaneous (load line)
OVERVOLTAGE PROTECTION	Yes, by varistors (generation, battery and load lines)
SENSING LINE DISCONNECTION PROTECTION	Yes



FUNCTIONAL CHARACTERISTICS

REGULATION TYPE	Series type controlled by microprocessor with solid state relay. Modes: ON/OFF or PWM (internal jumper select)
BATTERY SELECTION	AGM / SLI MOD / TUBULAR ABIERTA / TUBULAR GEL
SENSING LINE OF BATTERY	Yes
LANGUAGE SELECTION	Spanish/ English
REGULATION MODES	Boost/floating/equalization ⁽¹⁾
CHARGING MODE INDICATION	Boost, floating and equalization with LEDs and LCD (Isoler D); LEDs (Isoler)
TEMPERATURE COMPENSATION	Yes, -2mV / °C / V (with external probe)
LOAD DISCONNECTION DUE TO LOW VOLTAGE	Yes, with automatic restart
CHARGE STATE INDICATION	Full, half and empty battery
TWILIGHT RELAY	Yes. Selectable mode (ON-OFF and ON-OFF-ON)
PARAMETERS IN ALPHANUMERIC LCD	Battery voltage, instantaneous generation and load current values, temperature, etc.
TROPICALIZED CIRCUITS	Yes
WORKING TEMPERATURE RANGE	0 – 50° C (full load)
SHORT-CIRCUIT/OVERLOAD DISCONNECTION RESTART	Yes, manual reset

(1) Equalization is disabled in gel tubular batteries.



OBSERVATIONS

- All features could be modified without notice. For more details, please, visit www.isofoton.com