

Specifications: battery charger RS SERIES

Specifications	Single-phase models	Three-phase models
Input voltage	120/208/240Vac (+10% - 12%) other optional input voltages available	208/480/600Vac (+10% - 12%) other optional input voltages available
Frequency	60Hz (+/- 5%) (50hz optional)	
Output voltage	24Vdc, 48Vdc, 125 or 250Vdc Other optional output voltages available)	
Output current (current limit adjustment: 20 to 110%)	10, 20, 30, 40, 50,..., 80A other optional output currents available	25, 50, 75, 100, 125, 150, 175, 200, 225, 250,..., 600A
Voltage regulation	+/- 0.5%	
Ripple max.	2% rms of the output voltage (without battery connected)	
Efficiency (at rated current)	≥85%	
Input/Output insulation	by transformer	
Input protection	Thermal magnetic circuit breaker, 1,2 or 3 poles (standard: 10KA, 14KA at 600Vac)	
Output protection	Fuse (option: thermal magnetic circuit breaker, 2 poles (standard: 5KA))	
Battery protection (if applicable) (BX, BI and BIP configuration)	Thermal magnetic circuit breaker, 2 poles (standard: 5KA)	
Surges suppressors	standard	
Dry contact Alarms	Standard: 2 form «C» contacts (regrouped alarms) and a single form «C» contact (programmable), capacity:120Vac/125Vdc, 0.5A	
Remote Network Access	Standard: RS-485 serial port (MODBUS/RTU slave communication protocol)	
Ventilation	Natural convection	
LCD screen	Dimensions L x H in mm (inches): 114 x 64 (4.5" x 2.5") 4 lines, 16 characters each, pixels: 240 L x 128 H	
Measuring apparatus (on the LCD screen)	Rectifier: voltmeter/ammeter, battery (if applicable): voltmeter/ammeter and many other measures available on the LCD screen	
DC voltmeter accuracy	+/- 0.2%	
DC ammeter accuracy	+/- 1.0%	
Audible noise (at rated current)	65 dbA measured at 1.0 meter (3 feet)	
ENVIRONMENTAL		
Operating temperature	0 to 50°C (derating: 1%/°C over 40°C)	
Storage temperature	-20 to 70°C	
Relative humidity	5 to 95% at 40°C without condensation	
Altitude	1000m (3280 feet) (derating: 7%/1000m over 1000m)	



TESTING:

Dielectric strength: IEC 60255-5

Surge withstand capability (SWC): comply with IEC 60255-22-1/-4 (IEEE C37.90.1)

Electrostatic discharge: comply with IEC 61000-4-2

Fire resistance: comply with UL94V0

Environmental: Dry heat testing: comply with IEC 68-2-2

Standards:

CSA C22.2 No. 107.2 «Battery Chargers»

UL 1012 «Power Units Other Than Class 2»

Quality Assurance Program: ISO9001 (2000)

RS Series