

TYPICAL TECHNICAL SPECIFICATION

INPUT	
Protect RCS Single Phase (SPRe)	Single phase 230 Vac 10% (220 V, 240 V)
Protect RCS Three Phase (TPRe)	Three phase 400 Vac 10% (380 V, 415 V) Other voltages available as option
Exceptional variations	+ 15/-20 % (functional)
Frequency	50 Hz or 60 Hz 6%
OUTPUT	
Nominal voltage (Udc)	24 V 48 V 110 V 220 V (Other voltages available as non-standard option)
Range of operating voltage	Floating charge 75% to 125% of Udc Nominal High rate charge 75% to 135% of Udc Nominal Commissioning charge 75% to 140% of Udc Nominal
Static voltage regulation	0.5% under the following conditions: <ul style="list-style-type: none"> • at float charge • 0-100% DC load variation • input voltage 10% • input frequency 6% • temperature from 0°C to 40°C
Dynamic voltage regulation	Using standard filter and the battery connected (capacity higher than 5 times I nom) Load step Deviation 10-90% -5% 90%-10% +5%
Current regulation	0-2% of current limit
Long-term stability of UDC	0.15% for 1000 hours
Temperature coefficient of UDC	0.18% per °C
Charging characteristic	Constant current / constant voltage ---- as per IEC 478-1) during float charge
Input/Output isolation	2500 VAC between input/output and electrical earth
Insulation resistance	>200 M, 500 VDC
Ripple	Max 1% rms of nom. DC voltage, with a battery Ah capacity of 5 times the charger nom rating, battery connected (see our filter options) 2% rms typical (max 5%) on rectifier output, battery not connected.

PROTECTION	
	<ul style="list-style-type: none"> • Polarity reversal of battery (blows battery fuse, optional) • Soft-start function 0 to 100% • Short-circuits • Limited to 100% of rated current • Internal DC fuse • Non-volatile storage of system parameters and user setting • Mains failure shutdown • High-voltage DC shutdown • Thermal protection
EMC emissions	Generic emission standards IEO/EN 61000-6-4 and generic immunity standards IEC/EN 61000-6-2 available as standard option
Safety	According to IEC/EN 62040-1-2 standard
ENVIRONMENTAL	
Ambient temperature	Operating : 0°C to +40°C Derate from 40°C to 55°C by lowering the output current by 1.25% per°C Storage: -25°C to +70°C
Relative humidity	Operation: from 20% to 95% non condensing Storage: from 15% to 90% (in original packaging)
Acoustic noise	Typical 45-65 dB(A)
Altitude	Up to 1000m, derate from 1000 to 4000m by lowering the output current by 7% per 1000m
Tropicalisation	Suitable for ambient temperature and relative humidity specified above and for ambient air free from dust and corrosive gases