

VarioTrack

VT-80



Model	VT-80		
Electrical characteristics PV array side			
At nominal battery voltage	12 V	24 V	48 V
Maximum solar power recommended (@STC)	1250 W	2500 W	5000 W
Maximum solar open circuit voltage	75 V	150 V	
Maximum solar functional circuit voltage	75 V	145 V	
Minimum solar functional circuit voltage	Above battery voltage		
Electrical characteristics battery side			
Maximum output current	80 A		
Nominal battery voltages	Automatic / manual set to 12, 24 or 48 V		
Operating voltage range	7 - 68 V		
Performances of the device			
Power conversion efficiency (in a 48 V typical-system)	> 99 %		
Maximum stand-by self-consumption (48 V)	25 mA > 1.2 W		
Maximum stand-by self-consumption (24 V)	30 mA > 0.8 W		
Maximum stand-by self-consumption (12 V)	35 mA > 0.5 W		
Charging stages	4 stages: Bulk, Absorption, Float, Equalization		
Battery temperature compensation (available with accessory BTS-01)	-3 mV /°C / cell (25°C ref) default value adjustable -8 to 0 mV /°C		
Electronic protections			
PV reverse polarity	Up to -150 V		
Battery reverse polarity	Up to -150 V		
Battery overvoltage	Up to 150 V		
Over temperature	Protected		
Reverse current at night	Prevented by relays		
Environment			
Operating ambient temperature range	-20 to 55°C		
Humidity	100 %		
Ingress protection of enclosures	IP54, IEC/EN 60529:2001		
Mounting location	indoor		
General data			
Warranty	5 years		
ISO Certification	9001:2008 / 14001:2004		
Weight	5.5 kg		
Dimensions h/w/l [mm]	120 / 220 / 350		
Parallel operation (separated PV arrays)	Up to 15 devices		
Max wire size	35 mm ²		
Glands	M 20 x 1,5		
Communication			
Network cabling	STUDER communication BUS		
Remote control & Communication	RCC-02/03, Xcom-232i / Xcom-LAN / Xcom-GSM / Xcom-SMS		
Menu languages	English / French / German / Spanish		
Data logging	With RCC-02/03, Xcom-232i on SD card · One point every minute		
Accordance to standards			
EU declaration of conformity	Low Voltage Directive (LVD) 2014/35/EU: - EN 50178:1997 Electromagnetic Compliance (EMC) Directive 2014/30/EU: - EN 61000-6-2:2005, - EN 61000-6-4:2007/A1:2011		
Accessories			
Remote control RCC-02 or RCC-03	•		
Module Xcom-232i	•		
Communication sets Xcom-LAN / Xcom-GSM / Xcom-SMS	•		
Battery Status Processor BSP	•		
2 aux. contacts module ARM-02	•		
Cooling Module ECF-01	Included		
Battery temp. sensor BTS-01 (3 m)	•		
Communication cable CAB-RJ45-8-2	•		