

VarioTrack Series



Model	VT-65			VT-80		
Electrical characteristics PV array side						
At nominal battery voltage	12 V	24 V	48 V	12 V	24 V	48 V
Maximum solar power recommended (@STC)	1000 W	2000 W	4000 W	1250 W	2500 W	5000 W
Maximum solar open circuit voltage	80 V	150 V		80 V	150 V	
Maximum solar functional circuit voltage	75 V	145 V		75 V	145 V	
Minimum solar functional circuit voltage	Above battery voltage					
Electrical characteristics battery side						
Maximum output current	65 A			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	5.2 kg			5.5 kg		
Dimensions h/w/l [mm]	120 / 220 / 310			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						
CE compliant	EMC 2004/108/EC · LV 2006/95/EC · RoHS 2011/65/EU					
Safety	IEC/EN 62109-1:2010					
EMC (Electro Magnetic Compatibility)	IEC/EN 61000-6-3:2011 · IEC/EN 61000-6-1:2005					
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	•			•		