SAMLEX EUROPE® B.V.

POWER CONVERSION PRODUCTS

VT Series MPPT Solar Charge Controller

FEATURES

- MPPT algorithm
- Rugged and durable, IP 54 classification
- Full protection against incorrect wiring
- High conversion efficiency 98%
- 4 step charger for longer battery life
- Low self-consumption <1W in night time mode
- Up to 15 Variotrack in parallel
- Optimal usage in Xtender system with synchronized battery management
- Display with 7 LEDs showing status and current
- 5 Year warranty

Model	VT-65		
Maximum Solar power recommended (@STC)	12 V	24 V	48 V
	1000 W	2000 W	4000 W
Maximum Solar Open Circuit Voltage	80 Vdc	150 Vdc	
Maximum Solar functional circuit voltage	75 Vdc	145 Vdc	
Electrical characteristics Battery side			
Maximum Output Current	65 A		
Nominal Battery Voltages	Automatic / manual set to 12, 24 or 48 Vdc		
Operating voltage range	Above battery voltage minimum 7V		
Perfomances of the divice			
Power Conversion Efficiency (in a 48 V typical-system)	98 %		
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	Protected		
Battery reverse polarity	Up to -150 Vdc		
Battery overvoltage	Up to 150 Vdc		
Over temperature	Protected		
Reverse current at night	Prevented by relays		
Enviroment			
Operating Ambiant Temperature Range	-20 to 55 °C		
Humidity	100 %		
Ingress Protection of enclosures	IP54, IEC/EN 60529:2001		
Mounting location	Indoor		
General data			
Weight	5,2 Kgs		
Dimensions (LxWxH)	310 x 220 x 120 mm		
Parallel operation (separated PV arrays)	Up to 15 devices		
Max wire size	35 mm2		
Glands	M 20 x 1,5		
Communication			
Networking Cabling	Communications BUS		
Remote Display and Controller	RCC-02/-03/ Xcom-232i		
Menu languages	English / French / German / Spanish		
Data Logging	With RCC-02/03 on SD card • One point every minute		
Accordance to standards			
CE compliant	EMC 2004/108/CE • LV 2006/95/CE • RoHS 2002/95/CE		
Safety	IEC/EN 62109-1:2010		
EMC (Electro Magnetic Compatibility)	IEC/EN 61000-6-3:2011 • IEC/EN 61000-6-1:2005		