



**samlexsolar**<sup>®</sup>  
A Division of Samlex America Inc.

60A



**Charge Controller  
MPPT Series**

**Model  
Steca Tarom  
MPPT-6000/6000-M  
60 Amps**

**Design Features**

- 2x30A each, independent PWM based MPPT Channels (connected in parallel or used separately for 2 different solar arrays)
- Robust metal casing and heat sink for convection cooling
- Comprehensive data logging of energy values for up to 20 years
- Data logger Micro-SD card (6000-M only)
- Temperature compensation
- Three configurable multifunctional contacts for load and generator control (6000-M only)
- Battery types: Gel/Liquid Lead Acid Battery (for 6000-M also Li, NiCd and NiMh batteries)
- Integrated, Automatic Module Switch
- 36 V and 60 V batteries can be charged with special settings advanced menu level



**2 YEAR LIMITED WARRANTY**

PARAMETER		MPPT-6000	MPPT-6000-M
OVERALL OPERATING PERFORMANCE	SYSTEM VOLTAGE	12 V / 24 V / 48 V	
	NOMINAL POWER	900 W / 1,800 W / 3,600 W	
	MAX. DC-DC EFFICIENCY	99.4 % (U <sub>Batt</sub> =48 V; U <sub>In</sub> =70 V; P=0,65*P <sub>nom</sub> )	
	EUROPEAN EFFICIENCY	96.6 % (U <sub>Batt</sub> =24 V; U <sub>In</sub> =30 V)	98.9 % (U <sub>Batt</sub> =48 V; U <sub>In</sub> =70 V)
	EUROPEAN EFFICIENCY (weighted across all U <sub>Batt</sub> and U <sub>In</sub> )	96.4 %	
	STATIC MPP EFFICIENCY	99.9 % (DIN EN 50530)	
	DYNAMIC MPP EFFICIENCY	99.8 % (DIN EN 50530)	
	WEIGHTED REW (Realistic Equally Weighted) EFFICIENCY	94.8 %	
PV INPUT SIDE (SOLAR ARRAY)	OWN CONSUMPTION	< 1 W	
	MIN. MPP VOLTAGE PER INPUT	17 V / 28 V / 56 V	
	MAX. MPP VOLTAGE PER INPUT	180 V	
	MIN. OPEN CIRCUIT VOLTAGE PER INPUT (At minimum operating temperature)	20 V / 40 V / 80 V	
	MAX. OPEN CIRCUIT VOLTAGE PER INPUT (At minimum operating temperature)	200 V	
BATTERY SIDE	MODULE CURRENT PER INPUT	30 A	
	CHARGE CURRENT	60 A	
	END OF CHARGE VOLTAGE	14.1 V / 28.2 V / 56.4 V	
	BOOST CHARGE VOLTAGE	14.4 V / 28.8 V / 57.6 V	
	EQUALISATION CHARGE VOLTAGE	15 V / 30 V / 60 V	
ENVIRONMENTAL CONDITIONS WIRING AND CONSTRUCTION	BATTERY TYPE	(i) Lead Acid (Gel/Liquid) and (ii) NiCd/NiMh and Lithium Ion (MPPT-6000M only)	
	AMBIENT TEMPERATURE	-25°C to +50°C	
	TEMPERATURE SENSOR	PA TS-5 (Optional for MPPT-6000)	
	WIRE SIZE OF TERMINALS	AWG # 2 / 35 mm <sup>2</sup> (For stranded wire)	
	DEGREE OF PROTECTION	IP 31	
ENVIRONMENTAL CONDITIONS WIRING AND CONSTRUCTION	DIMENSIONS (W x H x D)	295 x 335 x 125 mm / 11.61 x 13.19 x 4.92 in	
	WEIGHT	6.3 kg / 13.9 lbs	

NOTES: 1. Technical data at 25°C / 77°F  
2. Specifications are subject to change without notice

12006-MPPT-6000-0815