

	SCM20	SCM40	SCM25 MPPT	SCM60 MPPT-MB
FEATURES				
Buzzer	yes	yes	yes	no
Communication	PC-Link (optional)	PC-Link (optional)	n.a.	MasterBus
LCD display features	battery state of charge, status output, battery setting		backlit LCD with PV power, load power, battery voltage, charge current, warnings, battery state of charge, battery setting	
Protections	over temperature, over load, high/low battery voltage, high/low PV voltage, short circuit, reverse polarity & HV transients			
PV (SOLAR) INPUT				
Nom. PV current	20 A (at 25 °C)	20 A (at 25 °C)	18 A (at 40 °C)	50 A (at 40 °C)
PV start voltage (12/24 V)	12.8 V/25.6 V	12.8 V/25.6 V	15 V/27 V	n.a.
PV start voltage (12/24/48 V)	n.a.	n.a.	n.a.	15 V/27 V/51 V
Nom. PV voltage (12 V)	n.a.	n.a.	15 - 66 V	13.2 - 115 V
Nom. PV voltage (24 V)	n.a.	n.a.	30 - 66 V	26.4 - 115 V
Nom. PV voltage (48 V)	n.a.	n.a.	n.a.	52.8 - 115 V
Max. PV voltage at Tmin	50 V	50 V	75 V	145 V
Max. PV power (12 V)	360 Wp	720 Wp	360 Wp	900 Wp
Max. PV power (24 V)	720 Wp	1440 Wp	720 Wp	1800 Wp
Max. PV power (48 V)	n.a.	n.a.	n.a.	3600 Wp
Max. efficiency	n.a.	n.a.	> 98%	> 98%
Static MPP efficiency	n.a.	n.a.	99.9%	99.9%
DC OUTPUT				
System voltage 12 V	12 V/24 V auto select	12 V/24 V auto select	12 V/24 V auto select	12 V/24 V/48 V auto select
Battery type	AGM, gel, wet, Lithium Ion			
Battery temp. sensor	yes	yes	yes	yes
Lithium Ion protection	yes, via DC relay & Multipurpose Contact Output, art.no 77030500	yes, via DC relay & Multipurpose Contact Output, art.no 77030500	yes, via Multipurpose Contact Output, art.no 77030500	yes, via MasterBus connection
Max. charging current	20 A (at 25 °C)	40 A (at 25 °C)	25 A (at 40 °C)	60 A (at 40 °C)
Switchable output (max. current)	20 A	40 A	25 A	n.a.
Energy consumption (night)	4 mA	4 mA	5 mA	< 1 mA
GENERAL				
Technology	PWM	PWM	MPPT	MPPT
Max. cable size	16 mm ² Litz wire	16 mm ² Litz wire	10 mm ² Litz wire	35 mm ² Litz wire
Dimensions, hwxwd	98 x 140 x 41 mm	98 x 140 x 41 mm	135 x 190 x 75 mm	398 x 168 x 104 mm
Weight	222 g	232 g	1.3 kg	5.5 kg
Temperature range	-25 to 50 °C	-25 to 50 °C	-20 to 55 °C	-20 to 55 °C
Humidity	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing
Protection degree	IP20	IP20	IP23	IP23
Cooling	passive	passive	passive	passive
Grounding	(-) terminal	(-) terminal	(-) terminal	(-) terminal