



SPB-LS

CHARGE REGULATOR

		12V battery nominal voltage			24V battery nominal voltage		
		Min	Typ	Max	Min	Typ	Max
Battery voltage	Vbatt	10V	12V	17V	20V	24V	34V
Open circuit voltage	Vpan	20V		100V	40V		100V
Panel current	Ipan			13,5A			13,5A
Max panel power	Pmax			225W			450W
Load output voltage	Vload	-	Vbatt	-	-	Vbatt	-
Load current	Iload	-	-	8A	-	-	8A
Charge voltage at 25°C	Vch		14.44V 14.88V			28.88V 29.76V	
Vch compensation according to battery temperature [Tbatt]	Vtadj	-	24mV/°C	-	-	48mV/°C	-
Low battery voltage SW_5-->ON	Vlb	-		-	-		-
SW_7-->ON		-	12.00V	-	-	24.00V	-
SW_7-->OFF			11.52V			23.04V	
Vch compensation with SW_5-->OFF	Vremch		+58mV/A			+58mV/A	
Low battery output voltage at 25°C	Vout_lb	-	Vch-0,24V	-	-	Vch-0,48V	-
Vlb compensation with SW_5-->OFF	Vremlb		58mV/A			-58mV/A	
Voltage of day detection (settable)	Vday	-	6.88V	-	-	11.36V	-
Voltage of night detection: Vnight = Vday -0.8V	Vnight	-	4.48V		-	8.96V	-
Self-consumption	Iqsc		12.7mA			17,7mA	
Ambient temperature	Tamb	-20°C		55°C	-20°C		55°C
IP protection degree			IP66			IP66	
Weight		-	1.0Kg	-	-	1.0Kg	-
Relative humidity	100%, Condensing						
Maximum altitude (m)	2000						
Environmental condition	Outdoor						
Pollution degree	PD3						
Box dimensions (mm)	160x135 H65						
Dimensions with cables (mm)	160x170 H65						
Standards	EN/IEC 62109-1, CEI EN 61000-6-1, CEI EN 61000-6-3						



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SPB-LS/BT



SPB-LS/GSM