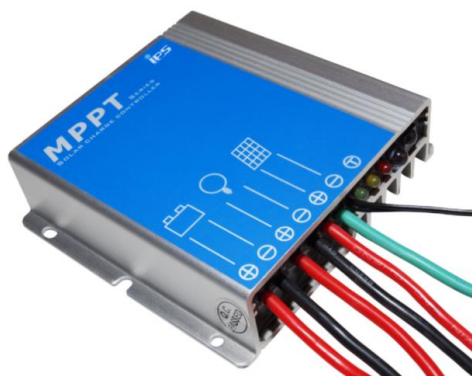


Charge regulator for semi-flex and rigid PV panels


RoHS


Device characteristics

• LAMP series - IP67 waterproof regulators • Autodetection of the 12 / 24Vdc system	• MPPT processing type • High efficiency > 99.9%
• Day and night tracking • Configuration via remote control	• Temperature compensation • 4-stage charger
• Electronic security features • Return hysteresis after discharge	• Dedicated to wet, AGM and GEL batteries

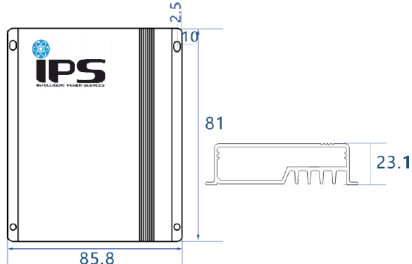
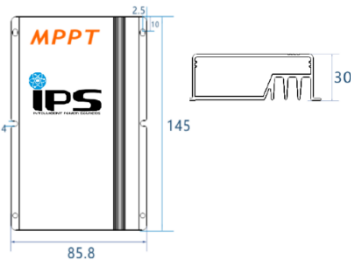
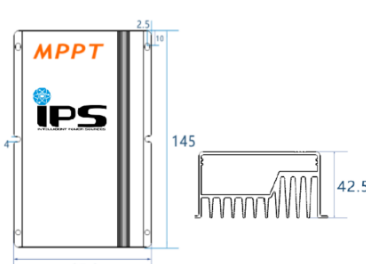
Example application

		
Campers	Yachts	Foodtrucks
		
Solar lighting	Electronic equipment	CCTV self-power

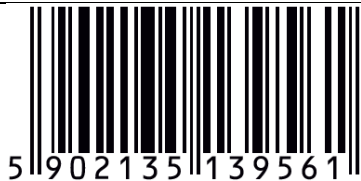
MODEL	PVS-MPPT-LAMP-12V-10A	PVS-MPPT-LAMP-12V-10A-BT	PVS-MPPT-LAMP-1224V-15A	PVS-MPPT-LAMP-1224V-20A
Nominal power	120W	120W	180W (12V) 360W (24V)	240W (12V) 480W (24V)
DC OUTPUT (RECEIVERS)				
Standard operating voltage:	12Vdc	12Vdc	12V/24Vdc	12/24Vdc
Rated Current:	10A	10A	15A	20A
Auxiliary Output:	---	---	--	--
Efficiency:	96,5%		97,5%	
PV INPUT				
Max input voltage:	45Vdc		55V	
MPPT range:	Battery voltage +1V ... Voc*0,9			
MPPT efficiency	99,9%			
Day/Night Trigger Threshold:	3...8V	3...10V	3...20V	
Day/Night delay	0...30min (programmable)			
Typical cooperative PV modules:	MWG-60, MWG-80, MWG-100, MWG-130		MWG-100, MWG-130, MWG-160, MWG-170, MWG-200, max 200W/400W	
BATTERY INPUT/OUTPUT				
System:	12V		12Vdc/24Vdc	
MPPT	Before the stage BOOST i EQUAL in 4 gradual charging cycle			
Max. Charging Current:	10A		15A	20A
Tension of the boost (boost):	14,5V @25°C		14,5V/29V @25°C	
Equalizing voltage (equal):	14,8V @25°C		14,8V/29,6V @25°C	
Floating voltage (float):	13,7V @25°C		13,7V/27,4V @25°C	
Temperature compensation:	-4,17mV/K per cell (boost, Equal) -3,33mV/K per cell (float)			
Over voltage protection:	15,5V		15,5V / 31V	
Battery type:	Wet, GEL, AGM			
Low Discharge Disconnect:	10,8...11,8V (programmable)		10,8...11,8V / 21,6...23,6V (programmable)	
Return hysteresis:	11.4...12,8V (programmable)		11.4...12,8V / 22,8...25,6V (programmable)	
Self-consumption:	6mA			
MECHANICAL PARAMETERS				
Dimensions:	85,5x81x21,1mm		85,8x145x30mm	85,8x145x42,5mm
Net weight:	260g		720g	
Number of items in a box:				
Screw connection:	2,5mm ²		4mm ²	
Work temp.:	-35...+60°C, 0...100%RH			
Degree of protection:	IP67			
NORMS				
Electromagnetic Compatibility	EN 55015:2013+A1 EN 61547:2009			

*Voc – voltage of the open solar panel

Dimensions:

PVS-PWM-LAMP-12V-10A PVS-PWM-LAMP-12V-10A-BT	PVS-PWM-LAMP-1224V-15A	PVS-PWM-LAMP-1224V-20A
		

EAN:

PVS-MPPT-LAMP-12V-10A	PVS-MPPT-LAMP-1224V-15A	PVS-MPPT-LAMP-1224V-20A
		

Installation diagram

5,6	Solar panel
1,2	Battery
3,4	DC receiver
7	Grounding

