

## LA-PB-12V-90W.R002



Dimensions 180 mm x 130 mm x 50 mm  
 Indoor use only  
 AC cable length ca. 1,9m / DC cable length ca.1,8m  
 Operation temperature -10°C ... +40°C ambient  
 Operation humidity 0 - 90% RH (non-condensing)  
 Vibration withstand 10-55 Hz / 2.5 G / x,y,z axis  
 Shock Withstanding 50G / each axis positive and negative / 3 shocks each side (in total 18 shocks)

### Data for charger

Nominal input Voltage	230V AC	50..60Hz 220VAC .. 240VAC, 105W max. input
Limits of operations		47..63Hz 198VAC ...264VAC
Input power	105W	@ nominal output, 0,5W standby, 85% eff.
Lead acid battery	12V	min. 7,2Ah max. 65Ah
Three step charging algorithm IUUo	8h timer	@ 14,7V   I=3A, U=14,7V Uo=13,7V
Max. charge current	3A	restart criteria $I_{charge} > 95\%$
Signal Initialisation	0,5s	red LED
Signal Standby	0,5s/10s	green LED ON / OFF
Signal Charging constant current mode	0,5s/0,5s	green LED ON / OFF
Signal Charrging constant voltage	2s/0,5s	green LED ON / OFF
Signal Charging terminated	ON	green LED
Signal Error	0,2s/0,8s	red LED ON / OFF
Signal System Error ( e.g. ROM error)	10s	red LED ON, then power OFF
NTC @ battery	n.c.	not implemented, possible on project base
Connector		Pin 1 : GND black
		Pin 2: not implemented
		Pin 3: PLUS red
Class II equipment, safety standards		EN60335-1 / EN60335-2-29 approved
RoHS 2002/95/EC compliant		Housing UL94-V0
Emission		EN55014-1 / EN61000-3-2(Harmonics) / EN6100-3-3 (Flicker) / EN50366 (EMF) / FCC CFR Ch.1 Part 15 2005-09-19 (US model only)
Immunity		EN55014-2/EN61000-4-2(ESD)/EN61000-4-4(Burst)/ EN61000-4-5(Surge)/EN61000-4-6 (injected RF) / EN61000-4-11 (Voltage dips, short interruptions)
Weight	ca. g	Weight 600g (EU Version) / 650g (US-Version)