

POWER INVERTER/CHARGER

EP2100 PRO Series

300W~1000W | 12V/24V | 10~30A

Wide Power
300W–1000W for versatile use.

Pure Sine Wave
Stable and safe for all appliances.

Smart LCD
Easy control of frequency, voltage, and current.

Full Protection
Built in AVR function, Overload, short-circuit, deep discharge, and reverse polarity(opt.).

MUST®
Solar Power System

MAIN PARAMETER

MODEL	EP21-0312 PRO	EP21-0412 PRO	EP21-0512 PRO	EP21-0612 PRO	EP21-0812 PRO	EP21-1012 PRO	EP21-0624 PRO	EP21-0824 PRO	EP21-1024 PRO
Default Battery System Voltage	12VDC						24VDC		
INVERTER OUTPUT									
Rated Power	300W	400W	500W	600W	800W	1000W	600W	800W	1000W
Surge Rating	900VA	1200VA	1500VA	1800VA	2400VA	3000VA	1800VA	2400VA	3000VA
Waveform	Pure sine wave								
Voltage Regulation	Battery mode: 220 or 230VAC Line mode: 220~240VAC								
Output Frequency	50Hz / 60Hz								
Inverter Frequency (Peak)	>75%						>81%		
Bypass Efficiency	>95%								
Output Transfer Time	10ms (max)								
AC INPUT									
Voltage	220 / 230 / 240VAC								
Selectable Voltage Range	140~280VAC ±5%								
Low Battery Alarm; Recover	140VAC ±5%; 150VAC ±5%								
High Battery Alarm; Recover	280VAC ±5%; 270VAC ±5%								
Low Frequency Alarm; Recover	45 ±5Hz; 46 ±5Hz								
High Frequency Alarm; Recover	65 ±5Hz; 64 ±5Hz								
Nominal Input Range	50Hz / 60Hz ±5Hz								
AC Auto Restart	YES								
BATTERY									
Minimum Start Voltage	Low Battery Voltage Cut Off+0.5V						Low Battery Voltage Cut Off+0.5V		
Low Battery Voltage Alarm	Low Battery Voltage Cut Off+0.5V						Low Battery Voltage Cut Off+1.0V		
Min Voltage For Power On	Shutdown voltage +0.5V						Shutdown voltage +1V		
Low Battery Voltage Cut Off	10-12.0VDC						20.0-24.0VDC		
High Battery Voltage Alarm	(12-14.5V)+1V for 12VDC mode (*2 for 24VDC)								
AC CHARGE									
Floating Voltage	12-14.5VDC						12-29VDC		
Boost Voltage	12~14.5VDC						12~29VDC		
Maximum Charge Current	300W	400W	500W	600W	800W	1000W	600W	800W	1000W
	10A	10A	15A	20A	25A	30A	10A	15A	15A

OTHER PARAMETER

MODEL	EP21-0312 PRO	EP21-0412 PRO	EP21-0512 PRO	EP21-0612 PRO	EP21-0812 PRO	EP21-1012 PRO	EP21-0624 PRO	EP21-0824 PRO	EP21-1024 PRO
BYPASS & PROTECTION									
Input Frequency	50Hz or 60Hz								
Integrated	Output Circuit Protection; Battery Low Voltage Protection; Battery High Voltage Protection								
Overload Protection	>110%~125% Load fault after 60s; >125%~150% Load fault after 3s; >150% Load fault after 500ms								
Over Temperature Protection	≥90°C								
Bypass Output Protection	10A 250VAC								
Battery Reverse Protection	Optional								
Bypass Breaker Rating	10A								
Maximum Bypass Current	10A								
MECHANICAL SPECIFICATION									
Machine Dimension (W*H*D)(mm)	300.5*319*132.2								
Package Dimension (W*H*D)(mm)	391*325*187								
N.W(kg)	/								
G.W(kg)	/								
*Variations in dimensions and weights may occur due to production batches.									
OTHER									
Operating Temperature	0°C~40°C 0~90% relative humidity (non-condensing)								
Storage Temperature	-15°Cto 55°C								
Altitude	≤1000M								
Audible Noise	≤60dB								
Display	LED+LCD								
Cooling Mode	Fan cooling								
Fan Starting	>45°Cstarting, <30°C Closing								
Communication	USB								
CERTIFICATION & STANDARDS									

CE-LVD (EN IEC62109-1:2010,EN IEC62109-2:2011)
CE-EMC+LVD (EN6100-6-4:2007, EN6100-6-2:2005+EN IEC62109-1:2010, EN IEC62109-2:2011)
IEC60950-1:2005A+1:2009+A2:2013； EN IEC62040-1:2019

*The technical specifications of this document are subject to change without any notice