

LOW FREQUENCY POWER INVERTER

EP3000 PLUS Series

1~6kW | 230V | WIFI | BMS

Full Protection
Built-in overload and short-circuit protection

Low-Voltage Cutoff
Selectable battery shutdown levels

Priority Selection
Utility or battery priority selectable

Output Voltage Selectable
220V / 230V / 240V adjustable output

Battery Type Selection
Supports lead-acid and lithium batteries

BMS Communication
CAN communication with lithium BMS

MUST®
Solar Power System

MAIN PARAMETER

MODEL	EP30-1012 PLUS	EP30-1024 PLUS	EP30-1512 PLUS	EP30-1524 PLUS	EP30-2012 PLUS	EP30-2024 PLUS	EP30-3024 PLUS	EP30-3048 PLUS	EP30-4024 PLUS	EP30-4048 PLUS	EP30-5048 PLUS	EP30-6048 PLUS
Nominal Battery System Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC	48VDC
INVERTER OUTPUT												
Rated Power	1000W		1500W		2000W		3000W		4000W		5000W	6000W
Surge Rating	3000VA		4500VA		6000VA		9000VA		12000VA		15000VA	18000VA
Capable Of Starting Electric Motor	1HP		1HP		1HP		2HP				3HP	
Waveform	Pure sine wave / same as input (bypass mode)											
Nominal Output Voltage RMS	220V / 230V / 240VAC ±10% (RMS)											
Output Frequency	50Hz / 60Hz ±0.3Hz											
Inverter Efficiency (Peak)	>88%											
Line Mode Efficiency	>95%											
Power Factor	1.0											
Typical Transfer Time	10ms (max)											
Overload	100% < Load < 110% (alarm 5min then stop output and fault code 07) 110% < Load < 125% (alarm 60s then stop output and fault code 07) Load > 125% (alarm 10s then stop output and fault code 07)											
AC INPUT												
Voltage	230VAC											
Selectable Voltage Range	155~265VAC(For personal computers)											
Frequency Range	50Hz / 60Hz(Auto sensing) 40~80Hz											
BATTERY												
Minimum Start Voltage	(10V/ 10.5V/ 11V/ 11.5/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Voltage Alarm	(10V/ 10.5V/ 11V/ 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Voltage Cut Off	10V/ 10.5V/ 11V/ 11.5V/ 12V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
High Battery Voltage Alarm	(12-14.5V)+1V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
High Battery Voltage Recover	(12-14.5V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Energy Saving Mode	Load ≤100±20W(220V)											
CHARGER												
Output Voltage	Depends on battery type											
Charge AC Input Breaker Rating (230V)	1-3K/30A								4-6K/50A			
Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)											
Maximum Charge Current	30A	20A	45A	25A	60A	30A	40A	20A	60A	30A	35A	40A
BYPASS & PROTECTION												
Input Voltage Waveform	Sine wave (grid or generator)											
Nominal Input Frequency	50Hz or 60Hz											
Overload Protection (SMPS Load)	Circuit breaker											
Output Short Circuit Protection	Circuit breaker											
AC Input Breaker	1-3K/30A								4-6K/50A			

OTHER PARAMETER

MODEL	EP30-1012 PLUS	EP30-1024 PLUS	EP30-1512 PLUS	EP30-1524 PLUS	EP30-2012 PLUS	EP30-2024 PLUS	EP30-3024 PLUS	EP30-3048 PLUS	EP30-4024 PLUS	EP30-4048 PLUS	EP30-5048 PLUS	EP30-6048 PLUS
Mounting	Wall Mount											
Machine Dimension (W*H*D)(mm)	303*493*200mm								305*531*202mm			
Package Dimension (W*H*D)(mm)	615*400*319mm								686*400*319mm			
N.W(kg)	14.8kg	15kg	18.8kg	17.1kg	19.5kg	18.6kg	20.3kg	20.1kg	31kg	29.5kg	30.9kg	34.5kg
G.W(kg)	16.3kg	16.5kg	20.3kg	18.6kg	21kg	20.1kg	21.8kg	21.6kg	32.5kg	31kg	32.4kg	36kg
*Variations in dimensions and weights may occur due to production batches.												
OTHER												
Operating Temperature Range	0°C to 40°C											
Storage Temperature	-15°C to 60°C											
Audible Noise	60dB MAX											
Display	LED+LCD											
Standard Warranty	2 years											
CERTIFICATION & STANDARDS												

CE-EMC+LVD(EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2)
IEC60950-1 A1+A2; CE-EMC+LVD,EN62040-2,EN62040-1

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