

Fully programmable inverter/charger



On Inverter

- Fully programmable inverter/charger
- LCD display to see and change parameters
- 3 times Power Surge

On Battery Charger

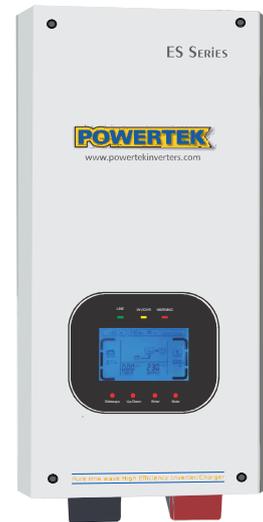
- Intelligent battery charging
- Uses PFC (power factor correction) for charger

On Transfer

- 8 to 10ms typical transfer time
- Time delay before transfer when AC resumes

Optional

- MPPT Charger (OPTIONAL)
- Automatic Voltage Regulator AVR (OPTIONAL)
- Wifi external module (OPTIONAL)



Characteristics

ECO SINE from 1.2KW to 8KW

- Pure sine wave (THD<3%)
- Low Frequency Design – Superior Surge & Overload Capability
- 4 stages charger: bulk, Absorption, Flotation and De-sulphation
- Full, sustainable power for continuous backup
- LCD Display (Indicates: VDC batteries, IDC, VAC input and output, Frequency, % battery charge, % load on output, watts on output, fault code, inverter status, etc.)
- Charger state and load profiles for different types of batteries:
Lead Acid, AGM, GEL and lithium.
- High efficiency charger
- Electronic protections: Output shortcircuit, Battery discharged, Overload, Overvoltage, over temperature, high battery voltage.
- Multiple acoustic alarm: Low bat and High bat, Overload, Over temp and fault.
- Adjustable charging current 0 - 70 max. (Depending on model)
- Inverter-Line Transfer Delay
- Energy saving mode (Power saver)
- Compatible with external solar chargers / MPPT charger (Optional).
- Adjustable input frequency tolerance
- Automatic re-start after overloads and after battery discharge once the input voltage is normal.
- Optional Wifi plug monitoring internet connection App (iOS and Android).

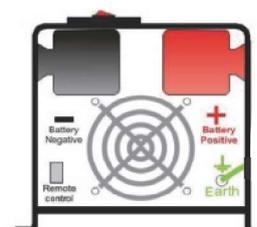
Technical specifications

Input Wave Form:	Sine wave (Utility or Generator)								
Nominal Voltage:	120VAC				230VAC				
Low Voltage Trip:	85V±4%				184V/154V±4%				
Low Voltage re engage:	95V±4%				194V/164V±4%				
High Voltage Trip:	140V±4%				263V±4%				
High Voltage re engage:	135V±4%				253V±4%				
Max Input AC Voltage:	150VAC				270VAC				
Nominal Input Frequency:	50Hz or 60Hz (Auto detect)								
Low freq trip:	40Hz for 50Hz				50Hz for 60Hz				
High freq trip:	55Hz for 50Hz, 65Hz for 60Hz								
Output wave form:	(Bypass mode) same as input								
Overload protection:	Circuit breaker								
Short circuit protection:	Circuit breaker								
Transfer switch rating:	30amp or 40amp								
Efficiency on line transfer mode:	95%								
Line transfer time:	10ms Typical								
Bypass without battery connected:	Yes								
Max bypass current:	30amp or 40amp								
Bypass over load current:	35amp or 45amp: Alarm								
Inverter Specification/output									
Output wave form:	Pure sine wave								
Output continuous power Watts:	1200	2200	3200	4000	5000	6000	7000	8000	
Power factor:	0.9-1.0								
Nominal output voltage rms:	120/230VAC								
Output voltage regulation:	± 10% RMS								
Output frequency:	50Hz ± 0.3Hz or 60Hz ± 0.3Hz								
Nominal efficiency:	>85%								
Surge ratings:	3000	6000	9000	12000	15000	18000	21000	24000	
Short circuit protection:	Yes, fault after 10 secs								
Inverter Specification/input									
Nominal Input voltage:	12V	24V	48V	72V					
Minimum start voltage:	10V	20V	40V	60V					
Low battery alarm:	10.5V	21V	42V	63V					
Low battery trip:	10V	20V	40V	60V					
High voltage alarm:	16V	32V	64V	96V					
Power saver:	Below 25 watts when enabled								
Power saver:	Same switched on/off on remote								
Charger Mode specification									
Input voltage range:	85-140VAC or 184-263VAC								
Output voltage:	Dependent on battery type								
Charger current:	15A/20A/35A/50A/70A/90A								
Battery initial voltage for start up:	10-15.7v for 12v(*2 for 24v,*4 for 48v,*6 for 72v)								
Over charge protection shutdown:	15.7v for 12v(*2 for 24v,*4 for 48v,*6 for 72v)								
Charger curve(4 stage constant current)Battery types									
4 step digital controlled progressive charge									
Battery type:	Fast V	Float V (*2 for 24v,*4 for 48v,*6 for 72v)							
b-1:AGM/GEL/Lead acid flooded	14.0	13.7 (*2 for 24V,*4 for 48V)							
b-2:LiFePO4 16S/8S/4S	57.6/28.8/14.4	56.8/28.4/14.2							
b-3:LiFePO4 16S/8S/4S	56.3/28.2/14.1	55.5/27.8/13.9							
b-4:LiFePO4 16S/8S/4S	55.2/27.6/13.8	54.4/27.2/13.6							
b-5:LiFePO4 15S	54.0	53.3							
b-6:LiFePO4 15S	52.8	52.1							
b-7:LiFePO4 15S	51.8	51.0							
b-8:De sulphation cycle	15.5	for 4 hrs (*2 for 24V,*4 for 48V)							
Remote control/RS232/USB	Yes. Optional								
Size: in mm	1200-3200W Model:460*220*190mm								
	4000-6000W Model:650*220*190mm								
	7000-8000W Model:650*240*190mm								
Weight:	1200W	1500W	2200W	3200W	4000W	5000W	6000W	7000W	8000W
	16kg	18kg	20kg	25.5kg	36kg	39.5kg	48kg	53.5kg	59kg

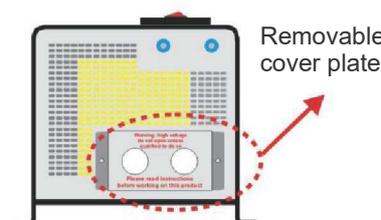
Front view



Bottom view



Top view



Product specifications are subject to change without further notice.