



## PV3500 Series (4KW-12KW)

### Features

- Smart LCD setting  
(Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 60A/80A/120A
- MPPT efficiency max 98%
- Powerful charge rate up to 100Amp
- Built-in pure copper UI transformer
- DC start & Automatic Self-Diagnostic Function
- RS485/USB monitoring function with free CD
- Supporting AGS, BTS port
- Compatible to generator

### Selection Guide

MODEL		PV35-4K		PV35-5K		PV35-6K		PV35-8K		PV35-10K		PV35-12K					
Nominal Battery System Voltage		24V / 48V		48V		48V		48VDC		48VDC		48VDC					
INVERTER OUTPUT	Rated power	4KW		5KW		6KW		8.0KW		10.0KW		12.0KW					
	Surge rating(20ms)	12KW		15KW		18KW		24KW		30KW		36KW					
	Capable of starting electric motor	2HP		2HP		3HP		4HP		5HP		6HP					
	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)	>85%						>88%									
	Line mode efficiency	>95%															
	Power factor	0.8															
	Typical transfer time	10ma(max)															
AC INPUT	Voltage	230VAC															
	Selectable voltage range	154~272 VAC (For personal computers)															
	Frequency range	50Hz / 60Hz (auto sensing)															
BATTERY	Minimum start voltage	20.0VDC/21.0VDC for24VDC mode (40.0VDC/42.0VDC for 48VDC mode)															
	Low battery alarm	21.0VDC+/-0.3V for 24VDC mode (42.0VDC+/-0.6V for 48VDC mode)															
	Low battery cutoff	20.0VDC+/-0.3V for 24VDC mode (40.0VDC+/-0.6V for 48VDC mode)															
	High voltage alarm	32.0VDC+/-0.3V for 24VDC mode (64.0VDC+/-0.6V for 48VDC mode)															
	High battery voltage recover	31.0VDC+/-0.3V for 24VDC mode (62.0VDC+/-0.6V for 48VDC mode)															
	Idle consumption-search mode	<25W when power saver on						<25W when power saver on									
AC CHARGER	Output voltage	Depends on battery type															
	Charger AC input breaker rating	40A		40A		50A		80A		80A		80A					
	Overcharge protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode )															
	Maximum charge current	65A		40A		50A		60A		70A		80A		100A			
BTS	Continuous output power	Yes Variances in charging voltage & S.D. voltage base on the battery temperature															
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															
	Bypass breaker rating	40A				63A				63A				63A			
	Max bypass current	40Amp				80Amp				80Amp				80Amp			
SOLAR CHARGER	Maximum PV charge current	80A				60A/120A				60A/120A				60A/120A			
	DC voltage	24V/48V Auto work															
	Maximim PV array power	2000W / 4000W															
	MPPT range @ operating voltage(VDC)	32-145VDC for 24V mode,64-147V for 48V mode															
	Maximum PV array open circuit voltage	147VDC															
	Maximum efficiency	>98%															
Standby power consumption	<2W																
MECHANICAL SPECIFICATIONS	Mounting	Wall mount															
	Dimensions (W*H*D)	620*385*215mm						670*410*215mm									
	Net weight (solar CHG) (kg)	36		41		41		69+2.5		75.75+2.5		75.75+2.5					
	Shipping dimensions (W*H*D)	755*515*455mm															
	Shipping weight (Solar CHG) (kg)	56		61		64		89+2.5		95.5+2.5		95.5+2.5					
OTHER	Operation temperature range	0°C to 40°C															
	Storage temperature	-15°C to 60°C															
	Audible noise	60dB MAX															
	Display	LED+LCD															
	Loading (20GP/40GP/40HQ)	140pcs / 280pcs / 320pcs															