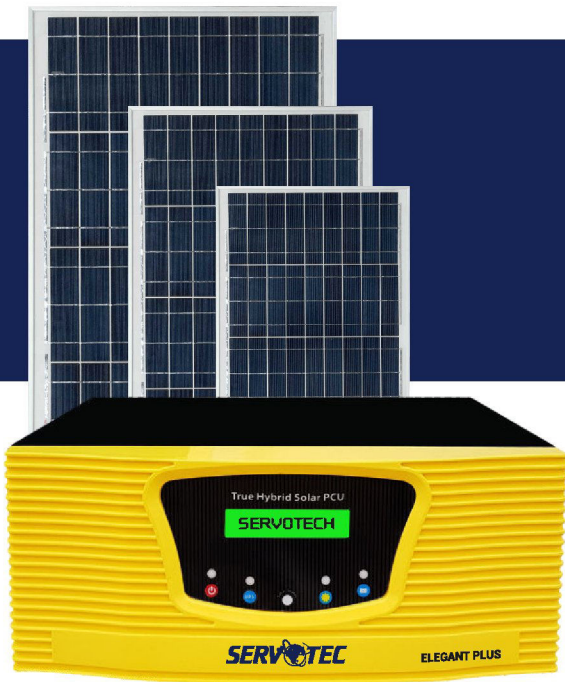


# ELEGANT PLUS

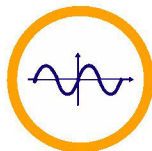
## PWM SERIES PCU



### CORE FEATURES



**INTELLIGENT MODES**



**PURE SINE WAVE**



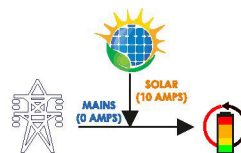
**TRUE CV CC PWM**



**LCD DISPLAY**



**ADVANCED DSP TECHNOLOGY**



**AI CHARGE SHARING**

- Big Display for Data
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections

- 5 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid



Elegant Plus - PWM Solar PCU Technical Specifications						
Parameters		Rating				Adjustable Range
		EP-PCU0GP-1112/S11	EP-PCU0GP-1512/S11	EP-PCU0GP-2224/S11	EP-PCU0GP-2724/S11	EP-PCU0GP-3524/S11
Model		800VA	1150VA	1715VA	2150VA	2850VA
Capacity		12V		24V		
Operating DC Voltage		≥80%		≥82%		
Typical Efficiency		MOSFET				
Switching Element		Boost MOSFET				
Charger Topology						
<b>Parameters (Grid)</b>						
Nominal Grid Voltage		230V				
Nominal Frequency		50Hz				
Frequency Range		45-55Hz				
Output PF.		0.7				
Battery Charging Method (5 Stage)		Soft Start/Bulk/Absorption/Float/Equalize				
Grid-Battery Charging	TUB (Default)	14.4V ± 0.2V (Each Battery)				13.8V - 15V
	Boost	13.8V ± 0.2V (Each Battery)				13V - 14.2V
Grid-Battery Charging	SMF	14.2V ± 0.2V (Each Battery)				13.5V - 14.2V
	Boost	13.8V ± 0.2V (Each Battery)				13.5V - 14.2V
Grid-Battery Charging	Enable	15A ± 1A				5A - 18A
	Default	18A ± 1A				
Current	Maximum	Charging Current 0.0A				
	Normal/Boost	11.7V ± 0.2V (Each Battery)				11V - 12.5V
Grid Reconnect @Battery Voltage						
Grid Low Cut Voltage	UPS Mode Enable	170V ± 10V				
	UPS Mode Disable	100V ± 10V				
Grid Low Cut Recovery	UPS Mode Enable	180V ± 10V				
	UPS Mode Disable	110V ± 10V				
Grid High Cut Voltage	UPS Mode Enable	265V ± 10V				
	UPS Mode Disable	290V ± 10V				
Grid High Cut Recovery	UPS Mode Enable	255V ± 10V				
	UPS Mode Disable	280V ± 10V				
Changeover (Batt. to Mains)	UPS Mode Enable/Disable	<6ms				
Changeover (Mains to Batt.)	UPS Mode Enable/Disable	<25ms				
DG Mode	Enable/Disable	Disable				
<b>Parameters (Battery Mode)</b>						
Output Phase		Single Phase				
Output Waveform		Sinewave				
Nominal Output Voltage		220V ± 5%				
Max. Output Current		2A	2.7A	4.20A	5.1A	7A
Nominal Frequency		50Hz ± 1				50Hz
Battery Low Buzzer		10.8V ± 0.02V (Each Battery)				10.5V - 11.1V
Battery Low Cut		10.5V ± 0.02V (Each Battery)				10V - 11.5V
Battery High Cut		16.5V ± 0.02V (Each Battery)				16.5V - 17.5V
Voltage THD		<3% (Linear Load)				
Overload Capacity	UPS Mode Disable	>110% 3-Times Auto Reset with 30sec. Delay and 4th Time Shut Down.				
	UPS Mode Enable	>110% 1st Time Shut Down after 30sec. Delay				
		>150% Output Goes Down, Shut Down with 10 sec. delay				
Protection		Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload, Wiring Fault				
<b>Switches and LED Indication</b>						
S.No.		Switch	Function(s)		Switch LED Status	
1		POWER	ON/OFF UPS Output		SYSTEM ON - LED ON , SYSTEM OFF - LED OFF	
2		Inverter/UPS	When it is Short Pressed it Enable UPS/Inverter Mode Selection. When it is long Pressed Enables the UPS Parameter Setting.		UPS Mode ON - LED ON , UPS Mode OFF - LED OFF	
3		SMF/TUB	When it is Pressed it Enables TUBULAR/SMF Battery Selection		TUBULAR Battery - LED ON , SMF Battery - LED OFF	
4		Hybrid/PCU	When it is short pressed it enables Hybrid/PCU Mode Selection		PCU Mode - LED ON, Hybrid Mode - LED OFF	
5		Only LED	Solar Status Green/Red		Green LED ON - Full Solar used , Green LED Blinking - Partial Solar used , Green LED OFF - No Solar used , Red LED ON - PV Reverse Protection, Red LED OFF - No Protection Selected	
Display		Battery Voltage, Solar Charging Current, Grid Charging Current, Solar Load Current, Grid Voltage, Grid Frequency, Output Voltage, Output Frequency, Load in % on Battery, Load in % on Solar, Charging Mode, Protection, Charging Mode, Solar Kwh(Saving), Solar Availability Status, Solar Working Mode (Hybrid/PCU Lite/PCU Ultra), UPS ON/OFF				
<b>Parameters (Solar)</b>						
Switching Element		MOSFET				
Operating Mode		HYBRID/PCU LITE/PCU ULTRA				
Type of charger		PWM				
SPV Charging Voltage	TUB	15V ± 0.02V (Each Battery)				14.2V - 15.5V
	Boost	14.2V ± 0.02V (Each Battery)				13.8V - 14.5V
SPV Charging Voltage	SMF	14.3V ± 0.02V (Each Battery)				13.5V - 14.5V
	Boost	13.9V ± 0.02V (Each Battery)				13.5V - 14V
Efficiency		≥97%				
Solar Current Min.		>1A (Below 1A, System will act like Solar Absent)				
Solar Current Max.		50A				
Input Voltage Range (Min - Max) Voc		17V - 25V		31V - 45V		
Maximum PV Power Recommended		550W	1000W	1800w	2000w	
<b>Parameters (Environment)</b>						
Operating Temperature		0 - 50°C				
Cooling		Fan				
Max. Relative Humidity@25°C (Non-condensing)		95%				
Noise @1metre		50dB				
Standard Compliance		IP20				
Weight (Kg) Gross		9.4kg	10.0kg	12.0kg	16.0kg	18.0kg
Dimension LxWxH (mm)		390X335X225		395X385X270		

Note:- Elegant plus 3524 model support to 1HP branded submersible pumps.

\*Due to continuous improvement technical specifications & product image can change without prior notice.