

## **ELEGANT**

**PLUS** 

**PWM SERIES PCU** 

## **CORE FEATURES**







**PURE SINE WAVE** 



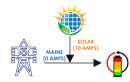
TRUE CV CC **PWM** 



**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











## **ELEGAN**

T PLUS	
PWM SERIES PCU	
	X

							PCU Technica							
	Parameters						Rati	ing			Adjustable Range			
Model			EP-PCUOG	P-1112/S11	EP-PCUOGP	P-1512/S11	EP-PCUOGP-	2224/S11	EP-PCUOGP-2724/S11	EP-PCUOGP-3524/S11				
Capacity Occupance		80	0VA	1150	0VA	1715\	VA	2150VA	2850VA					
perating DC Vol ypical Efficiency					12V 80%				24V >82%					
witching Elemer			≥80% ≥82% MOSFET											
harger Topology arameters (Grid							Boost M	OSFET						
Varameters (Grid Nominal Grid Vol							230	0V						
lominal Frequen							50F							
requency Range output PF.	2						45-5							
Battery Charging Method (5 Stage)		0.7 Soft Start/Bulk/Absorption/Float/Equalize												
Grid-Battery TUB (Default) Boost			14.4V ± 0.2V (Each Battery)							13.8V - 15V				
harging rid-Battery		Float Boost	13.8V ± 0.2V (Each Battery) 14.2V ± 0.2V (Each Battery)							13V - 14.2V 13.5V - 14.2V				
harging	SMF	Float					13.8V ± 0.2V (E	Each Batter			13.5V - 14.2V			
rid-Battery	Enable	Default Maximum					15A ±				5A - 18A			
harging urrent	Disable					18A ± Charging Cu								
	Battery Voltage	Normal/Boost					11.7V ± 0.2V (E	Each Batter	y)		11V - 12.5V			
rid Low Cut	UPS Mode						170V ±							
oltage rid Low Cut	UPS Mode UPS Mode						100V ±							
ecovery	UPS Mode	e Disable					110V ±	± 10V						
rid High Cut	ut UPS Mode Enable						265V ±							
oltage rid High Cut	UPS Mode Disable h Cut UPS Mode Enable						290V : 255V :							
ecovery	UPS Mode						280V :							
hangeover Batt. to Mains)	UPS Mode Ena	able/Disable		· <u></u>		· <u></u>	<6n	ms						
hangeover	LIDS Mode Fr	able/Disable					,0F.	me						
Mains to Batt.)	UPS Mode Ena		ļ				<25r							
G Mode arameters (Batt	Enable/E tery Mode)	JISADIE					Disa	inie						
utput Phase							Single I							
utput Waveform							Sinew							
ominal Output \ lax. Output Curr			-	2A	2.7	7A	220V :		5.1A	7A				
ominal Frequen	icy						50Hz	z ± 1			50Hz			
attery Low Buzz attery Low Cut	zer						10.8V ± 0.02V ( 10.5V ± 0.02V (				10.5V - 11.1V 10V - 11.5V			
attery Low Cut							16.5V ± 0.02V (				16.5V - 17.5V			
oltage THD							<3% (Line	ear Load)						
			UPS Mod	de Disable		>110% 3	-Times Auto Re	set with 30s	sec. Delay and 4th Time Sh	nut Down.				
verload Capacit	:y		LIDE Mo.	do Enoblo			- 110% 1o+T	Time Chut D	own after 20oog Delay					
	UPS Mode Enable >110% 1st Time Shut Down after 30sec. Delay													
				Rattery Low			t Goes Down, Sh	hut Down wi	th 10 sec. delay	Trin Grid Overload Wiring				
				Battery Low,			t Goes Down, Sh	hut Down wi	th 10 sec. delay	Trip, Grid Overload, Wiring				
						Over Tempera	t Goes Down, Sh ature, Short Circ	hut Down wi	th 10 sec. delay					
Protection			Overload, I		Battery High, (	Over Tempera	t Goes Down, Sh ature, Short Circ Fau	hut Down wi cuit, PV Reve ult	th 10 sec. delay erse, PV High, Mains Fuse	tus				
			Overload, I	Sv	Battery High, C	Funct ON/OFF U  When it is SI it Enable U  Mode Selectis long Pres	t Goes Down, Shature, Short Circe, Faution(s)  IPS Output  hort Pressed PS/Inverter tion. When it sed Enables Parameter	hut Down wi cuit, PV Revo ult SYS	th 10 sec. delay erse, PV High, Mains Fuse Switch LED Sta	tus EM OFF - LED OFF				
rotection	D Indication		Overload, I S.No.	POWER	Battery High, C	Funct ON/OFF U  When it is SI it Enable U Mode Selectis long Pres the UPS F Sett  When it is Enables TUI	t Goes Down, Shature, Short Circe, Faution(s)  IPS Output  hort Pressed PS/Inverter tion. When it sed Enables Parameter	hut Down wi zuit, PV Reve ult SYS	th 10 sec. delay erse, PV High, Mains Fuse Switch LED Sta STEM ON - LED ON , SYSTE	tus EM OFF - LED OFF dode OFF - LED OFF				
	D Indication		S.No. 1	POWER  Inverter/UP	Battery High, C	Over Tempera  Funct  ON/OFF U  When it is SI it Enable U  Mode Selec: is long Pres the UPS F  Sett  When it is SI  Battery S  When it is sI it enables I	t Goes Down, Shature, Short Circ Faution(s)  IPS Output  hort Pressed PS/Inverter tion. When it seed Enables Parameter ting.  Pressed it BULAR/SMF	hut Down wi cuit, PV Reve ult SYS UPS I	th 10 sec. delay erse, PV High, Mains Fuse Switch LED Sta STEM ON - LED ON , SYSTE	tus EM OFF - LED OFF  fode OFF - LED OFF				
rotection	D Indication		Overload, I S.No. 1 2	POWER Inverter/UP SMF/TUB	Battery High, C	Over Tempers  Funct  ON/OFF U  When it is SI  it Enable U  Mode Selectis long Press  the UPS F  Sett  When it is SI  Enables TUI  Battery S  When it is sI  it enables I  Mode S	t Goes Down, Shature, Short Circ Faution(s)  IPS Output  hort Pressed PS/Inverter tion. When it seed Enables Parameter ting.  Pressed it BULAR/SMF Selection  hort pressed Hybrid/PCU election	SYS  UPS I  TUBU  Green LED  Solar used	th 10 sec. delay erse, PV High, Mains Fuse  Switch LED Sta  STEM ON - LED ON , SYSTE  Mode ON - LED ON , UPS M	tus  EM OFF - LED OFF  Mode OFF - LED OFF  IF Battery - LED OFF  Mode - LED OFF  en LED Blinking - Partial r used, Red LED ON - PV				
rotection witches and LEC			Overload, I S.No. 1 2 3 4 5 Battery Vo	POWER  Inverter/UP  SMF/TUB  Hybrid/PCL  Only LED  oltage, Solar tequency, Loar	Battery High, C  vitch  S  Charging Currer  d in % on Batte	Over Tempers  Funct  ON/OFF U  When it is SI  it Enable U  Mode Selectis long Press  the UPS F  Sett  When it is Enables TUI  Battery S  When it is sI  it enables I  Mode S  Solar Status  ent, Grid Char  rry, Load in %	t Goes Down, Shature, Short Circ Fau tion(s) IPS Output  hort Pressed PS/Inverter tion. When it sed Enables Parameter ting.  Pressed it BULAR/SMF Selection  hort pressed Hybrid/PCU election  s Green/Red	hut Down wi buit, PV Reve ult  SYS  UPS I  TUBU  Green LED  Solar used Reverse I  olar Load Cr	th 10 sec. delay erse, PV High, Mains Fuse  Switch LED Sta STEM ON - LED ON , SYSTE  Mode ON - LED ON , UPS M  LAR Battery - LED ON , SM  CU Mode - LED ON, Hybrid  ON - Full Solar used , Gree, Green LED OFF - No Sola	tus  EM OFF - LED OFF  Hode OFF - LED OFF  IF Battery - LED OFF  Mode - LED OFF  en LED Blinking - Partial rused, Red LED ON - PV No Protection Selected requency, Output Voltage, Solar Kw/Notyon, Solar				
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isplay arameters (Sola witching Elemer perating Mode pyee of charger PV Charging	ir) nt HYBRID/PCU LIT TUB	Boost Float Boost	Overload, I S.No. 1 2 3 4 5 Battery Vo	POWER  Inverter/UP  SMF/TUB  Hybrid/PCL  Only LED  oltage, Solar tequency, Loar	Battery High, C  vitch  S  Charging Currer  d in % on Batte	Over Tempers  Funct  ON/OFF U  When it is SI  it Enable U  Mode Selectis long Press  the UPS F  Sett  When it is Enables TUI  Battery S  When it is sI  it enables I  Mode S  Solar Status  ent, Grid Char  rry, Load in %	t Goes Down, Shature, Short Circ Faution(s) IPS Output hort Pressed PS/Inverter tion. When it sed Enables Parameter ting.  Pressed it BULAR/SMF Selection hort pressed drybrid/PCU election  Green/Red  MOSI Hyb PW 15V ± 0.02V (E14.2V ± 0.02V (F14.3V ± 0.02	hut Down wi puit, PV Revu ult  SYS  UPS I  TUBU  Green LED  Solar used  Reverse I  olar Load Ct  ging Mode, E  Hybrid/PCU  FET  orid  MM  Each Batter  (Each Batter  (Each Batter	th 10 sec. delay  Prese, PV High, Mains Fuse:  Switch LED Sta  STEM ON - LED ON , SYSTE  Mode ON - LED ON , UPS M  LAR Battery - LED ON , SM  CU Mode - LED ON , Hybrid  ON - Full Solar used , Gree, Green LED OFF - No Sola  Protection, Red LED OFF - Protection, Charging Mode  Lite/PCU Ultra), UPS ON/O  ()  y)  y)  y)	tus  EM OFF - LED OFF  Hode OFF - LED OFF  IF Battery - LED OFF  Mode - LED OFF  en LED Blinking - Partial rused, Red LED ON - PV No Protection Selected requency, Output Voltage, Solar Kw/Notyon, Solar	13.8V - 14.5V 13.5V - 14.5V			
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isplay  arameters (Sola witching Elemer perating Mode) grounding provided from the control of th	TUB SMF  X. nge (Min - Max) Vower Recommende	Boost Float Boost Float	Overload, I S.No. 1 2 3 4 5 Battery Vc Output Fre	POWER  Inverter/UP  SMF/TUB  Hybrid/PCL  Only LED  Oltage, Solar requency, Load	S S Charging Currer din National Control of the Con	Over Tempers  Funct ON/OFF U When it is SI it Enable U Mode Select is long Press the UPS F Sett  When it is Enables TU Battery When it is It enables I Mode S  Solar Status ent, Grid Chan	t Goes Down, Shature, Short Circo tature, Short Circo tion(s) IPS Output  hort Pressed PS/Inverter tion. When it sed Enables Parameter ting.  Pressed it BULAR/SMF Selection  hort pressed Hybrid/PCU election  MOSI Hyb PW 15V ± 0.02V (14.3V ± 0.02V (13.9V ± 0.02V	hut Down wi puit, PV Revu ult  SYS  UPS I  TUBU  Green LED Solar used Reverse I  olar Load Ct Gland Batter (Each Batter	th 10 sec. delay erse, PV High, Mains Fuse  Switch LED Sta STEM ON - LED ON , SYSTE  Mode ON - LED ON , UPS M  LAR Battery - LED ON , SM  CU Mode - LED ON , Hybrid  ON - Full Solar used , Gree, Green LED OFF - No Sola Protection, Red LED OFF - I  urrent, Grid Voltage, Grid Fr  protection, Charging Mode Lite/PCU Ultra), UPS ON/O  (P) (P) (P) (P) (P) (P) (P) (P) (P) (P	tus  EM OFF - LED OFF  Hode OFF - LED OFF  BF Battery - LED OFF  Mode - LED OFF  en LED Blinking - Partial rused, Red LED ON - PV No Protection Selected requency, Output Voltage, Solar Kwh(Saving), Solar FF	13.8V - 14.5V 13.5V - 14.5V			
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isplay  arameters (Sola witching Elemen perating Mode pye of charger PV Charging oltage PV Charging oltage arameters (Envi perating Tempe oling Tempe	TUB SMF  A. X. yege (Min - Max) Vower Recommender ronment) rerature midity@25°C (Non ance s	Boost Float Boost Float	Overload, I S.No. 1 2 3 4 5 Battery Vc Output Fre	POWER  Inverter/UP  SMF/TUB  Hybrid/PCL  Only LED  Oltage, Solar requency, Load	S Charging Curret din % on Batter Availability St 100	Over Tempers  Funct ON/OFF U When it is SI it Enable U Mode Selec- is long Pres Set:  When it is SI Enables TU Battery S  When it is si it enables I Mode S  Solar Status ent, Grid Char ent, Grid Char ent, Grid Char y, Load in % atus, Solar W	t Goes Down, Shature, Short Circ Faution(s)  IPS Output  hort Pressed PS/Inverter tion. When it seed Enables Parameter ting.  Pressed it BULAR/SMF Selection  for the pressed PS/Inverter ting.  Pressed it BULAR/SMF Selection  for the pressed PS/Inverter ting.  Pressed it BULAR/SMF Selection  for the pressed PS/Inverter ting.  For the pressed PS/Inverter ting.  MOSI PW INVERTER TING TING TING TING TING TING TING TING	hut Down wi buit, PV Revu ult  SYS  UPS I  TUBU  Green LED Solar used Reverse I  Olar Load Ct ging Mode, Fi Hybrid/PCU  FET Forid KM Each Batter (Each Batter (Each Batter (Each Batter) (Each Batter (Each Batter)	th 10 sec. delay erse, PV High, Mains Fuse  Switch LED Sta  STEM ON - LED ON , SYSTE  Mode ON - LED ON , UPS M  LAR Battery - LED ON , SM  CU Mode - LED ON , Hybrid  ON - Full Solar used , Gree, Green LED OFF - No Sola  Protection, Red LED OFF - I  current, Grid Voltage, Grid Fi Protection, Charging Mode Lite/PCU Ultra), UPS ON/O  (1) (2) (3) (4) (5) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	tus  EM OFF - LED OFF  Hode OFF - LED OFF  BF Battery - LED OFF  Mode - LED OFF  en LED Blinking - Partial rused, Red LED ON - PV No Protection Selected requency, Output Voltage, Solar Kwh(Saving), Solar FF	13.8V - 14.5V 13.5V - 14.5V			







