



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 SERIES PCU

	Parameters						PCU Technical Specifi Rating	SEMESTAL CO.		Adjustable Ran
Model			EP-PCUOG						EP-PCUOGP-3524/S11	Aujustable Han
pacity				OVA		OVA	1715VA	2150VA	2850VA	
erating DC Vol- pical Efficiency	tage		12V 24V 280% 282%							
vitching Elemer	it						MOSFET	EG 2.76		
arger Topology rameters (Grid)							Boost MOSFET			
minal Grid Volt	tage						230V			
ominal Frequent equency Range							50Hz 45-55Hz			
utput PF.	Method (5 Stage)					Soft S	0.7 tart/Bulk/Absorption/Flo	at/Equaliza		
rid-Battery	TUB (Default)	Boost	14.4V ± 0.2V (Each Battery)							13.8V - 15V
narging id-Battery		Float Boost					13.8V ± 0.2V (Each Batt 14.2V ± 0.2V (Each Batt			13V - 14.2V 13.5V - 14.2V
narging	SMF	Float				13.8V ± 0.2V (Each Battery)				13.5V - 14.2V
id-Battery narging	Enable	Default Maximum					15A ± 1A 18A ± 1A			5A - 18A
ırrent	Disable	Normal/Boost					Charging Current 0.0			48V 48 EV
id Heconnect @ id Low Cut	Battery Voltage UPS Mode	Enable Enable					11.7V ± 0.2V (Each Batt 170V ± 10V	ery)		11V - 12.5V
ltage	UPS Mode Disable		100V±10V							
id Low Cut covery	UPS Mode Disable		180V ± 10V 110V ± 10V							
id High Cut	UPS Mode Enable UPS Mode Disable		265V ± 10V							
d High Cut UPS Mode Enable		290V ±10V 255V ±10V								
ecovery UPS Mode Disable		280V ±10V								
Batt. to Mains)			<6ms							
angeover lains to Batt.)	UPS Mode Ena						<25ms			
Mode rameters (Batt	Enable/D	isable					Disable			
Itput Phase							Single Phase			
utput Waveform ominal Output V							Sinewave 220V ± 5%			
ax. Output Curre	ent			2A	2.	7A	4.20A	5.1A	7A	
ominal Frequent attery Low Buzz							50Hz ± 1 10.8V ± 0.02V (Each Bat	erv)		50Hz 10.5V - 11.1V
attery Low Cut							10.5V ± 0.02V (Each Bat	ery)		10V - 11.5V
attery High Cut oltage THD							16.5V ± 0.02V (Each Bat <3% (Linear Load)	ery)		16.5V - 17.5V
			UPS Mor	de Disable		>110% 3		Osec. Delay and 4th Time Sh	nut Down.	
Overload Capacity			LIDS MA	UPS Mode Enable >110% 1st Time Shut Down after 30sec. Delay						
			0.0.00	>150% Output Goes Down, Shut Down with 10 sec. delay						
rotection			Overload,	Battery Low,			ature, Short Circuit, PV Re	verse, PV High, Mains Fuse	Trip, Grid Overload, Wiring	
			S.No.	Sv	vitch	Funct	Fault ion(s)	Switch LED Sta	tuo	
			1					SWITCH LED STR		
			<u> </u>	POWER		ON/OFF U		YSTEM ON - LED ON , SYSTI		
			2	Inverter/UP	'S	When it is SI it Enable U Mode Selec	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter		EM OFF - LED OFF	
witches and LEC) Indication				s	When it is SI it Enable U Mode Select is long Pres the UPS F Sett When it is Enables TUI	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it	YSTEM ON - LED ON , SYSTI	em OFF - LED OFF	
witches and LEC) Indication		2	Inverter/UP		When it is SI it Enable U Mode Select is long Pres the UPS F Sett When it is Enables TU Battery S When it is sI it enables I	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it BULAR/SMF Selection hort pressed	YSTEM ON - LED ON , SYSTI	EM OFF - LED OFF fode OFF - LED OFF	
witches and LEC) Indication		3	Inverter/UP		When it is SI it Enable U Mode Select is long Pres the UPS F Sett When it is Enables TU Battery S When it is sI it enables I	PS Output S nort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it BULAR/SMF Election TUI Output TUI Green L S Green/Red Solar us	YSTEM ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULAR Battery - LED ON , SM	EM OFF - LED OFF fode OFF - LED OFF IF Battery - LED OFF Mode - LED OFF en LED Blinking - Partial r used, Red LED ON - PV	
witches and LEC splay splay			3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it BULAR/SMF Selection hort pressed Hybrid/POU election Green/Red Green L Solar us Revers ging Current, Solar Load on Solar, Charging Mode	YSTEM ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULLAR Battery - LED ON , SN PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gred, Green LED OFF - No Sola	EM 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 Kwh(Saving), Solar	
splay erameters (Sola vitching Elemer	r) N		3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it BULAR/SMF Selection hort pressed Hybrid/PCU election Green L Solar us R Green/Red Green L Solar us R Green/Red No Solar, Charging Modiorking Mode (Hybrid/PC) MOSFET	S Mode ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULAR Battery - LED ON , SM PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gred, Green LED OFF - DO Sola G Protection, Red LED OFF - COurrent, Grid Voltage, Grid F Protection, Charging Mode	EM 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 Kwh(Saving), Solar	
splay vitching Elemer erating Mode pe of charge	7)		3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables arameter ting. Pressed it BULAR/SMF selection hort pressed Hybrid/PCU election Green L Solar us- Radion Solar, Charging Mod forking Mode (Hybrid/PCI Hybrid PWM	S Mode ON - LED ON , SYSTI S Mode ON - LED ON , UPS M ULAR Battery - LED ON , SM PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gree d , Green LED OFF - No Sola e Protection, Red LED OFF - Current, Grid Voltage, Grid Fi , Protection, Charging Mode U Lite/PCU Ultra), UPS ON/O	EM 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 Kwh(Saving), Solar	
splay rameters (Sola ritching Elemer erating Mode pe of charger V Charging	r) N	Boost	3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ling. Pressed it BULAR/SMF Selection TUI Green L Solar use Revers Grigg Current, Solar Load on Solar, Charging Mod forking Mode (Hybrid/PC Hybrid PWM 15V ±0.02V (Each Batt	S Mode ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULAR Battery - LED ON , SM PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gree d, Green LED OFF - No Sola e Protection, Red LED OFF - Urment, Grid Vottage, Grid Protection, Charging Mod Fe U Liter/PCU Ultra), UPS ON/O	EM 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 Kwh(Saving), Solar	
splay rameters (Sola ittching Elemer erating Mode pe of charger V Charging ttage V Charging	r) nt HYBRID/PCU LITI TUB	Boost Float Boost	3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ting. Pressed it BULAR/SMF Selection hort pressed Hybrid/POU election Green L Solar us- RS Green/Red Green L Solar us- RS Green/Red Hybrid/POU MOSFET Hybrid PWM 15V±0.02V (Each Batt 14.3V±0.02V (Each Batt	S Mode ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULAR Battery - LED ON , SM PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gred, Greden LED OFF - No Sola le Greden LED OFF - PO OFF - Current, Grid Voltage, Grid F, Protection, Charging Mode U Lite/PCU Ultra), UPS ON/O	EM 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 Kwh(Saving), Solar	13.8V - 14.5V 13.5V - 14.5V
rameters (Sola vitching Elemer erating Mode, pe of charger V Charging Itage V Charging	r) nt HYBRID/PCU LITI	Boost Float	3 4 5	Inverter/UP SMF/TUB Hybrid/PCL Only LED	J Charging Curr	When it is SI it Enable U Mode Selectis long Pres the UPS F Set Set When it is Enables TU Battery S When it is si it enables it Mode S Solar Status ent, Grid Chair ery, Load in %	PS Output S hort Pressed PS/Inverter tion. When it sed Enables Parameter ling. Pressed it BULAR/SMF Election hort pressed Hybrid/PCU election Green L Green/Red Green/Red Green/Red Green/Red Green/Red Green/Red Hybrid/PCU election MOSFET Hybrid PWM 15V ± 0.02V (Each Batt 14.2V ± 0.22V (Each Batt 14.2V ± 0.22V (Each Batt	S Mode ON - LED ON , SYSTI S Mode ON - LED ON , UPS N ULAR Battery - LED ON , SM PCU Mode - LED ON, Hybrid ED ON - Full Solar used , Gred, Greden LED OFF - No Sola le Greden LED OFF - PO OFF - Current, Grid Voltage, Grid F, Protection, Charging Mode U Lite/PCU Ultra), UPS ON/O	EM 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 Kwh(Saving), Solar	14.2V - 15.5V 13.8V - 14.5V 13.5V - 14.5V
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