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## **SAMSUN MPPT PCU 2000/24V**



Mode Manne Marie regul mode  Mate A Extre or Lat UFB mode  Mate A	Mails Paper Bessel   Mails Spatial States   PROME STATES		
Series & De Lord Coll Series   978-002.5 MARC.  Marce & De Lord Coll Series   988-002.5 MARC.  Marce & De Lord Coll Ser	Manua	Model Name	SAMSUN 2000VA/24V MPPT PCU
Name & Common & Common & Service & S	Marie AC Organ Color Histories   Seption Co. 1990C.	Mains Input mode	
Morra & Chin and Large mode  289-842, 1994CL  Morra & Chin and Large mode  289-842, 1994CL  Morra & Chin and Large mode  Morra & Chi	Mans AG Bight on LOF Principe         35500 C, 1500 C           Marie AG Direct Control PRINCIPE         25500 C, 1500 C           Marie AG Direct Control PRINCIPE         9000 C, 1000 C           Marie AG Direct Control PRINCIPE         9000 C, 1000 C           Marie AG Direct Control PRINCIPE         1000 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         2500 C, 1000 C           Marie AG Direct Control PRINCIPE         1000 C, 1000 C           Marie AG Direct Control PRINCIPE         1000 C, 1000 C           Marie AG Direct Control PRINCIPE         1000 C, 1000 C           Mari	Mains AC low cut UPS mode	175VAC ± 10VAC
Kerne AC Price Act recovery VERS mode	Man AC Size of Miny and recovery UPS more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Man AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and Recovery WUM more  Miny AC Size of Miny and	Mains AC low cut recovery UPS mode	185VAC ± 10VAC
Mains AC Diversion (MINPS mode) Mains AC Diversion (MINPS mode) Mains AC Diversion (MINPS mode) Mains AC Proprior (MINPS mod	Manue AC	Mains AC high cut UPS mode	265VAC ± 10VAC
Saites ACE Starts care accompt Walter mode  Marker ACE Starts care accompt Walter mode  Ace ACE Top and meanway Walter mode  Ace Top and Marker Mode	Manue & Cent and service Y WUP For robe  Mine & City David & 1904(年 1	Mains AC high cut recovery UPS mode	255VAC ± 10VAC
Many AC Page of ATMACH Smoote  2898AC & TAVACC  Many AC Page of ATMACH Smoote  1000 Financia Page of ATMACH SMOOTE  1000 F	Marie AC Print and WURS mode  ARRAY AC PRINT AND WURS mode  ARRAY AC PRINT AND WURS MODE  Recommy Counce in Marie Mode  Finestance of Service  ARRAY COUNCE IN Marie Mode  Finestance of Service  ARRAY COUNCE IN Marie Mode  Finestance of Counce in Marie Mode  Finestance of Counce in Marie Mode  Finestance of Counce in Marie Mode  ARRAY CO	Mains AC low cut WUPS mode	90VAC ± 10VAC
South Residency (Mary Smooth  All Residency (Mary Smooth	Xister act Annual Programmate         IMBERIAGE IN DIVICE           Vising Froquency Object in Mains Mode         5 Ames as yeard           Froquency Object in Mains Mode         5 Ames as yeard           Debatery Year         Image: Copy of Mains Mode           Control Year         1 Ames Year           Debatery Year         1 Ames Year           Control Year (window)         2 Year           Control Year (window)         2 Year (Window)           Control Year (window)         2 Year (Window)           Extension Scalaring Year (window)         Year (window)           Extension Scalaring Year (window)         2 Year (window) </td <td>Mains AC low cut recovery W.UPS mode</td> <td>110VAC ± 10VAC</td>	Mains AC low cut recovery W.UPS mode	110VAC ± 10VAC
Note Teleprotery Brage  ABB 10 S2PE  Millage Output in Marins Mode  Assers as imput  Anney Type  Description of Marins Mode  Assers as imput  Anney Type  Description of Marins Mode  Assers as imput  Anney Type  Description of Marins Mode  Assers as imput  Anney Type  Description of Marins Mode  Authority TV GOAR to 220AAh  2 2  Floor of Maring Watage  77.44-907V  Assert Anney Watage  77.44-907V  Assert Anney Watage  Assert An	Miles   Miles   Miles   Miles   Miles   Miles   Miles	Mains AC high cut WUPS mode	295VAC ± 10VAC
Some as input  **requency Output in Moris Mode  **Some as input  **Referency Output in Moris Mode  **Some as input  **Some or	Voltage Cloud In Minis Mode         Series as input           Battery Type         LA / Tubuse / SMF           Battery Type         LA / Tubuse / SMF           Common Vallage         LA / Tubuse / SMF           Battery SMF         2 / V           Common Vallage         2 / V           Battery SMF (SMF) (2004)         2 / V           Book of Analysis voltage for IA A Rationy         2 / V           Book of Analysis voltage for IA Rationy         2 / X / V           Book of Analysis voltage for IA Rationy         2 / X / V           Blue Association Surging voltage for IA Rationy         2 / X / V           Blue Association Surging voltage for IA Rationy         2 / X / X / V           Blue Association Surging voltage for IA Rationy (see place for Intelligence of SMF)         2 / X / X / X / X / X / X / X / X / X /	Mains AC high cut recovery W.UPS mode	285VAC ± 10VAC
Financiary Option in Meris Microb Softery Softer So	Finance Programme Name More Bellew 1	Input Frequency Range	48Hz to 52Hz
Settery Settery Sypole	Selecy   S	Voltage Output in Mains Mode	Same as input
Battery Types	Beller Y Five Contract vallage Contract	Frequency Output in Mains Mode	Same as input
Dic Impur valenge Sattery Clanding 12V 100An to 220An 2 Sattery Clanding 12V 100An to 220An 2 Seas charging valenge for Lab Battery Boos charging valenge for Tab Battery Boos charging valenge for Tab Battery 2 200V-02V Balk Aboroption Remay Valenge Bakkup Roboro Charging Current 13y Grid  2 2A2A  The Sattery deep Dackmape Recovery Yes (Independent Charge on to Recover Deep Dickharge Battery) Charging Current 13y Grid  2 2A2A  Bakkup Mode  Output Avolege 2 20VAC +5%. 10% (unstit battery low aborting Double Tab Battery Double Tab Batte	Dis region villages  Effective Counting VizV 100Ah to 220Ah  Please to branging village for 1A Serting  Effective Counting VizV 100Ah to 220Ah  2 2 240V-02V  Effective Counting VizV 100Ah to 220Ah  Effective Counting VizV 100Ah  Effective Counting VizV	Battery	
Soltery Quaentry 12V 100An to 220Ae Plant Charging voltage for It & Battery Solved Any S	Descey Canalogy DV MOAIN to 2200h         2           Cont Canalogy on Vibode to 2200h         27.44-0.27           Doost Canalogy on Vibode for Musical and SMP Biothery         20.04/0.27           Boost Canalogy on Vibode for Musical and SMP Biothery         20.04-0.27           Book Assoption SMR SMP Vivode (Door of SMP MORE)         20.04-0.07           Balkey Assoption SMR SMP Vibode (Door of SMP MORE)         78.04-0.07           Balkey Assoption SMR SMP Vibode (Door of SMP MORE)         78.04-0.07           Backs More (Door of SMP MORE)         78.04-0.07           Cologo (SMP MORE)         80.04-0.07           Cologo (SMP MORE)         80.04-0.07           Cologo (SMP MORE)         90.04-0.07           Cologo (SMP MORE	Battery Type	LA / Tubular / SMF
Designing collecting of Collecting Collectin	Setting Victority TV VOXAN to 220AN  For ext changing vollage for Like Between Voxan Control C		24V
Poat charging voltage			
Boost charging voltage for Labeler and SMF Battery Boost charging voltage for Tubular and SMF Battery Boost charging voltage for Tubular and SMF Battery Boost charging voltage for Tubular and SMF Battery Battery deep Discharge Recovery  Yes (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge to Becower Deep Discharge Battery)  Battery deep Discharge Recovery  Yes (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge to Becower Deep Discharge Battery)  Battery deep Discharge Recovery  Yes (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge to Becower Deep Discharge Battery)  Battery deep Discharge Recovery  Yes (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge to Becower Deep Discharge Battery)  Tasks (Independent Charge	Boost changing voltage for IA Battery  Boost changing voltage for Tabular and SMF Battery  Boost changing voltage for Tabular and SMF Battery  Battery deep Dischange Becowny  An Uniform State of State		
Soots changing votage for Tubular and SMF Battery  80x Absorption Battery Votage  80x Absorption Battery Votage  80x Absorption Battery Votage  80x Absorption Battery Votage  80x Battery deep Dischange Battery)  Yes (Independent Change in Benover Deep Dischange Battery)  Changing Current By God  80x 25x 22x  Output Votage  0xput votage	December of Landgring vallage for Tabular and SMF Battery         28 05/10 2 V           Statisty (deep Districtory Voltage         7 25 05/10 2 V           Statisty (deep Districtory Battery)         Yes independent Charger in Stacker Deep Discharge Battery)           Charging Current By Grid         2 25 05/10 2 V           Saction Mode         9 22 05/10 2 V           Output visition         9 22 05/10 2 V           Output visition         9 22 05/10 2 V           Output visition         9 20 05/10 2 V           Obstation         9 20 05/10 2 V           Own Statisty Visition         9 20 05/10 2 V           Own Battery Visition         9 20 05/10 2 V           Close Statisty Output         9 20 05/10 2 V           Coulsign         9 20 05/10 2 V           Short Close of Marcellan		
Baltery Voltage  Battery Voltage  Wes (independent Charger to Recover Deep Discharge Battery)  Asserting Career By Grid  Backup Mode  Cutput Mode  Capacity  Capacit	Batkey Absorption Batkey Verlange Recovery  Statley Absorption Batkey Verlange Recovery  You Sindependent Charger to Recover Deep Discharge Batkery)  Charger Gurent & Grid Charger Controlled Park (First Controlled Park (First Controlled Park (First Controlled Park (First Park (Firs		
Settery deep Discharge Recovery  Yes (independent Charger to Recover Deep Discharge Battery)  25A-22A  25A-27A	Seatery deep Dechange Recovery Changing Current By Grid Changing Curren		
Backup Mode   2504-2A	Charging Carriert By Grid Backup Mode  Culput Verlage		
Backup Mode	Descript Modes         Coupted Voltage         220 VC + 5% - 10% (until battery low alarm)           Output in Respuncy         50 Feb ± 0.2 Hz           Output weekform         Pure Stoke Water ± 5% THD           Output weekform         1 St. 15 Anno.           Capacity         2000 VV.24 V           Dechanging current if full load         65 A± 2A           Low Battery Water ± 50 Mining         222 Vo.2 V           Low Battery Water ± 10 Mining         222 Vo.2 V           Low Battery Water ± 10 Mining         222 Vo.2 V           Low Battery Water ± 10 Mining         22 Vo.2 V           Low Battery Water ± 10 Mining         22 Vo.2 V           Low Battery Water ± 10 Mining         22 Vo.2 V           Low Battery Water ± 10 Mining         25 Mining           Change over time WLPS mode         4 Storest           Change over time WLPS mode         4 Storest           Short Circuit in Backup Mode         System will shut down after 3 - retries in case of output short circuit           Short Circuit in Backup Mode         System will shut down after 3 - retries in case of output short circuit           Short Circuit in Mains Mode         Mining Min		
Output voltage 220VAC + 5% -10% (until battery low alarm) Output twaveform Pure Sine Wave 5 5% THD No Load current	Output voltage         220VAC 45% 40% (unit battery low alarm)           Output forequency         591z 2 0 2 Hz           Output forequency         Pur Silve Weer 5 % 11 HD           No Lood current         1 \$1.5 Amp.           Capacity         2000VA24V           Output will load         65.4 ± 2A           Low Battery Warning         2 210×10 2V           Low Battery Warning         2 210×10 2V           Change over time UPS mode         1 210×10 2V           Change over time VURPS mode         2 25mace           Change over time VURPS mode         1 60×10 2V           Change over time VURPS mode         2 5mace           Sworthing Element         MOSETE           Cooling         Temp. Controlled Fran           Protections         System will shut down after 3 - retries in case of output short circuit           Short Circuit in Backup Mode         System will shut down after 3 - retries in case of output short circuit           Short Circuit in Mains Mode         Yes provided, if heet sink temperature goes above 100°C System will shut down           Short Circuit in Mains Mode         Yes provided, if heet sink temperature goes above 100°C System will shut down           Short Circuit in Backup William         Yes provided, if heet sink temperature goes above 100°C System will shut down           Short Circuit in Mains Mode		Z5A±ZA
Output frequency Output waveform Pure Sine Wave 5 % THD Output waveform Pure Sine Wave 5 % THD Output waveform Pure Sine Wave 5 % THD Output waveform  \$ 1.5Amp.  2000WA24V  Discharging current & full load \$ 65A ± 2A  Low Battery Maning \$ 22450.2V  Change over time UPS mode \$ 1.56mp.  Coping Time WURS mode \$ < 10msec  Switching Element \$ MOSFET  Cooling \$ Temp. Controlled Fan  Protections  Short Circuit in Backup Mode \$ System will shut down after 3 - retries in case of output short circuit  Short Circuit in Backup Mode  System will shut down in case of back feed and there is no retry  Over temperature  Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery \$ De fase will burn  Phase to Phase protection in mains mode \$ Solar Charge Controller Pop  Max Panel wattage can be connected \$ MapPT  Max Panel wattage can be connected \$ Maximum PV Yutotage \$ 88V  Maximum PV Yutotage \$ 88V  Maximum Battery current  Filliciency \$ 9.3%  Nerverse Direction on PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Output frequency Output frequency Output weekform Output of hill load Output output of hill load Output weekform Output output of hill load Output output output of hill load Output ou		220/42 - 72/42/4 - 11/4 - 11/4
Output waveform  No Load current	Output waveform         Pure Sine Weve & Sis THD           Not Load current         I STAMP.           Capacity         20000VA/24V           Discharging current & full load         68.4 ± 2A.           Low Battery UST         220V±0.2V           Company Cover time UPS mode         4 000000000000000000000000000000000000		
No Load current Capacity AlsAmp. Capacity AlsAmp. Capacity AlsAmp. Als	No Load current Capacity Capac		
Capacity Discharging current & full load Discharging from PV and grid.  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Capacity         2000VX-24V           Discharing current & full load         658.1-2A           Low Bettery Warring         222Y-02V           Low Bettery Cut         1565.1-2A           Change over time UPS mode         < 070msec	Output waveform	
Decklarping current & full load  65A ± 2A  Low Battery Warning  22V:10.2V  Change over time UPS mode  <	Sectorsing current @ full load  Sectorsing current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  Sectorsing current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  Sectorsing current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  Sectorsing current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  Sectorsing current purch grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.55 v 0.2V Each Battery  Sectorsing current grid is 1.	No Load current	
Low Battery Warning 22V10.2V  Low Battery Cut 216V10.2V  Change over time UPS mode < 10msec  Change over time UPS mode < 25msec  Switching Element	Low Battery Warning         22V-0.2V           Low Battery Cut         126V-02V           Change over time UPS mode         < 10msec	Capacity	2000VA/24V
Low Battery Cut Change over time UPS mode Change over time WLPS mode Change over time WLPS mode Change over time WLPS mode Cooling Temp. Controlled Fan Protections Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Mains Mode Mains MCB Trip Back feed System will shutdown in case of back feed and there is no retry  Ves provided, if heat sink temperature goes above 100°C System will shut down Reverse Battery Phase protection in mains mode Solar Charge Controller Solar Charge Controller type Max Panel wattage can be connected Upto 1500WATT Maximum Battery current Solarph PV dotage Maximum Battery current Solarph Solar Charge Controller System Syst	Low Battery Cut         216V±0.2V           Change over time UPS mode         1 Carpase           Switching Element         MOSFET           Cooling         Temp. Controlled Fan           Protections         Temp. Controlled Fan           Short Circuit in Backup Mode         System will shut down after 3 - retries in case of output short circuit           Short Circuit in Mains Mode         Mains MCB Trip           Back feed         System will shut down in case of back feed and there is no retry           Over temperature         Yes provided, if heat sink temperature goes above 100°C System will shut down           Reverse Battery         DC fuse will burn           Phase to Phase protection in mains mode         Yes provided           Solar Charge Controller         MPPT           Max Panel wattage can be connected         Upto 1500WATT           Maximum Battery current         50Amp.           Efficiency         93%           Reverse PV protection         Yes provided. It will also display on LCD panel           Switches         Yes provided.           Sharing of current when PV and Grid Both are available         If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.           DOD definition/Depth of Discharge)         If PV power is not sufficient enough to charge the battery, system will st	Discharging current @ full load	65A ± 2A
Change over time UPS mode < 10msec Change over time WUPS mode < 25msec Switching Element MOSFET Cooling Temp. Controlled Fan Protections Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Mains Mode Mains MCB Trip Back feed System will shutdown in case of back feed and there is no retry  Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down Reverse Battery DC fuse will burn Phase to Phase protection in mains mode Yes provided Solar Charge Controller Solar Charge Controller type MPPT Max Panel wattage can be connected Upto 1500WATT Maximum PV Voltage SSV Maximum Battery current SoAmp. Efficiency 93% Reverse PV protection Solar Charge Controller Yes provided, It will also display on LCD panel Switches Menu(Selectiup,Down,Esc. Reverse PV protection to PV Yes provided If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Change over time UPS mode Change over time WUPS mode Change over time WUPS mode  Cooling Temp. Controlled Fan  MOSFET Cooling Temp. Controlled Fan  Protections  Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode System will shut down in case of back feed and there is no retry  Over temperature Ves provided, if heat sink temperature goes above 100°C System will shut down  Phase to Phase protection in mains mode Solar Charge Controller Solar Charge Controller Solar Charge Controller Maximum PV Voltage Maximum PV Voltage Maximum PV Voltage Reverse PV protection Solich Charge Controller Solich Charge Controller Solich Charge Controller Solar Charge Controller Maximum PV Voltage Maximum PV Voltage Maximum Battery current Maximum PV Voltage Maximum Battery current Maximum PV Voltage Maximum PV Voltage Maximum Battery current Maximum PV Voltage Maximum PV Voltage Maximum PV Voltage Maximum Battery current Maximum Battery Maximum Battery Maximum	Low Battery Warning	22V±0.2V
Change over time WUPS mode   Switching Element   MOSFET  Cooling Temp. Controlled Fan  Temp. Controlled Fan  Protections  Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode Mains MCB Trip  Back feed System will shutdown in case of back feed and there is no retry  Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery DC fuse will burn  Phase to Phase protection in mains mode Yes provided  Solar Charge Controller  Solar Charge Controller  Solar Charge Controller ype MPPT  Max Panel wattage can be connected Upto 1500WATT  Maximum PV Voltage 85V  Maximum Battery current 50Amp.  Efficiency \$93%  Reverse PV protection Yes provided. It will also display on LCD panel  Switches Menu(Select), up, Down, Esc.  Reverse current flow to PV Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Change over time WUPS mode  Switching Element  Cooling  Frotections  Short Circuit in Backup Mode  System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode  System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode  Back feed  System will shut down in case of back feed and there is no retry  Over temperature  Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller type  Max Penel wattage can be connected  Maximum Bruty Visitage  Solar Charge Vipotection  Siftiency  Yes provided, it will also display on LCD panel  Stricthes  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Reverse current flow to PV  Yes provided  Sharing of current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery system will start sharing battery charging from PV and grid.  18 PV power is not sufficient enough to charge the battery system will start sharing batte	Low Battery Cut	21.6V±0.2V
Switching Element MOSFET Cooling Temp. Controlled Fan Protections Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Mains Mode Mains MCB Trip Back feed System will shutdown in case of back feed and there is no retry  Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down Reverse Battery DC fuse will burn Phase to Phase protection in mains mode Yes provided Solar Charge Controller Solar Charge Controller type MPPT Max Panel watrage can be connected Upto 1500WATT Maximum PV Voltage SSV Maximum Battery current SOAmp. Efficiency S93% Reverse PV protection Switches Yes provided, it will adolphay on LCD panel Switches Menu(Select), up, Down, Esc. Reverse Current flow to PV Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Switching Element MOSPET Cooling Temp. Controlled Fan Protections Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Mains Mode Mains MCB Trip Back feed System will shutdown in case of back feed and there is no retry Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down Reverse Battery Potes protection in mains mode Yes provided Solar Charge Controller Solar Charge Controller Solar Charge Controller Pop MPPT Maximum Battery current Solar Charge Controller Solar Charge Controller You Maximum Battery current Solar Charge Poteston Yes provided Solar Description Solar Description Solar Solar Poteston Solar Description Solar Solar Poteston Solar	Change over time UPS mode	<10msec
Cooling Temp. Controlled Fan  Protections  Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode Mains MCB Trip  Back feed System will shutdown in case of back feed and there is no retry  Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery DC fuse will burn  Phase to Phase protection in mains mode Yes provided  Solar Charge Controller  Solar Charge Controller  Max Panel wattage can be connected Upto 1500WATT  Maximum PV Voltage 85V  Maximum Battery current 50Amp.  Efficiency 93%  Reverse PV protection Yes provided, it will also display on LCD panel  Switches Menu(Select), up, Down, Esc.  Reverse current flow to PV Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Cooling Temp. Controlled Fan  Protections  Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mcde Mains MCB Trip  Back feed System will shutdown in case of back feed and there is no retry  Over temperature Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery DC fuse will burn  Phase to Phase protection in mains mode Solar Charge Controller Solar Charge Controller ype MPPT Max Panel wattage can be connected Maximum PV vlatage Maximum Battery current Solar Charge Controller ype Meximum PV vlatage Maximum Buttery current Maximum PV vlatage Meximum Buttery current Meximum PV vlatage Meximum Solar (harge Controller ype ypersecond) Maximum PV vlatage Meximum Buttery current Mover the Menus of the provided of the village display on LCD panel  Switches Menus Solar (harge Controller ype ypersecond) Meximum PV vlatage Meximum PV vlatage Meximum Buttery current Menus Solar (harge Controller ype ypersecond) Meximum Buttery current Menus Solar (harge Controller ype ypersecond) Meximum PV vlatage (harge ypersecond) Menus Solar (harge ypersecond) Meximum PV and Grid Both are available  Menus Solar (harge ypersecond) Menu	Change over time WUPS mode	< 25msec
Protections  Short Circuit in Backup Mode  System will shut down after 3 - retries in case of output short circuit  Short Circuit in Mains Mode  Mains MCB Trip  Back feed  System will shutdown in case of back feed and there is no retry  Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller  Solar Charge Controller type  MPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  SSV  Maximum Battery current  Solamp.  Efficiency  9 93%  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select), up, Down, Esc.  Reverse current flow to PV  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Protections Short Circuit in Backup Mode System will shut down after 3 - retries in case of output short circuit Short Circuit in Mains Mode Mains MCB Trip  System will shutdown in case of back feed and there is no retry  Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery Phase to Phase protection in mains mode Yes provided Solar Charge Controller Solar Charge Controller Maximum PV Voltage Maximum PV Voltage Maximum PV Voltage Maximum PV Voltage Maximum Battery current Fifficiency Switches Meverse PV protection Yes provided, it will also display on LCD panel Switches Reverse Current flow to PV Yes provided, it will also display on LCD panel Fifficiency Yes provided to PV Yes provided, it will also display on LCD panel Fifficiency Fi	Switching Element	MOSFET
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Short Circuit in Mains Mode  Mains MCB Trip  Back feed  System will shutdown in case of back feed and there is no retry  Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Yes provided  Solar Charge Controller  Solar Charge Controller type  MPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  85V  Maximum Battery current  50Amp.  Efficiency  Pgs provided, it will also display on LCD panel  Switches  Menu[Select], up, Down, Esc.  Reverse current flow to PV  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Short Circuit in Mains Mode  Back feed  System will shutdown in case of back feed and there is no retry  Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller type  Max Panel wattage can be connected  Maximum Battery current  Maximum Battery current  Solar Charge Controller  Efficiency  Reverse PV protection  Westerse PV protection  Westerse PV protection  Witches  Reverse current flow to PV  Sharing of current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD (Depth of Discharge)  ### PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  ### PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  ### PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  ### PV power is not sufficient enough to charge the battery.  ### PV power is not sufficient enough to charge is 12.5V ±0.2V Each Battery  ### PV power is not sufficient enough to charge is 15.5V±0.2V Each Battery  ### PV power is not sufficient enough to charge is 15.5V±0.2V Each Battery  ### PV power is not sufficient enough to charge is 15.5V±0.2V Each Battery  ### PV power is not sufficient enough to charge is 15.5V±0.2V Each Battery	Protections	
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Back feed  System will shutdown in case of back feed and there is no retry  Ves provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller  Solar Charge Controller type  MAPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  85V  Maximum Battery current  50Amp.  Efficiency  > 93%  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select), up, Down, Esc.  Reverse current flow to PV  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Back feed System will shutdown in case of back feed and there is no retry  Over temperature Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery DC fuse will burn  Phase to Phase protection in mains mode Yes provided  Solar Charge Controller  Solar Charge Controller type MPPT  Max Panel watrage can be connected Upto 1500WATT  Maximum Battery current 50Amp.  Efficiency 93%  Reverse PV protection Yes provided, it will also display on LCD panel  Switches Menu(Select), up, Down, Esc.  Reverse current flow to PV Yes provided  Sharing of current when PV and Grid Both are available If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD (Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  20% if battery voltage is 12.5V ±0.2V Each Battery  30% if battery voltage is 12.0V±0.2V Each Battery	Short Circuit in Backup Mode	System will shut down after 3 - retries in case of output short circuit
Over temperature  Yes provided, if heat sink temperature goes above 100°C System will shut down  Reverse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller type  MAPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  BSV  Maximum Battery current  50Amp.  Efficiency  Yes provided, it will also display on LCD panel  Switches  Reverse PV protection  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Over temperature  Yes provided, if heat sink temperature goes above 100°C System will shut down  Per severse Battery  DC fuse will burn  Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller  Solar Charge Controller type  Max Panel wattage can be connected  Maximum PV Voltage  Maximum PV Voltage  Solar Charge Controller System will start sharing battery charging from PV and grid.  Befriciency  Solar Charge Controller System will start sharing battery charging from PV and grid.  Provided, it will also display on LCD panel  Switches  Reverse PV protection  Sharing of current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  Provided System System will start sharing battery charging from PV and grid.  Provided System System will start sharing battery charging from PV and grid.  Provided System System will start sharing battery charging from PV and grid.  Provided System System will start sharing battery charging from PV and grid.  Provided System System will start sharing battery charging from PV and grid.  Provided System System System will start sharing battery charging from PV and grid.  Provided System System System will start sharing battery charging from PV and grid.  Provided System Sy	Short Circuit in Mains Mode	Mains MCB Trip
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Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller type  MPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  85V  Maximum Battery current  50Amp.  Efficiency  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select),up,Down,Esc.  Reverse current flow to PV  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Phase to Phase protection in mains mode Solar Charge Controller Solar Charge Controller type Max Panel wattage can be connected Upto 1500WATT Maximum PV Voltage Maximum Battery current Solamp Efficiency Severse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge)  DOD (Depth of Discharge)  PMAPT  MPPT MPPT MPPT MPPT MPPT MPPT M	Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down
Phase to Phase protection in mains mode  Solar Charge Controller  Solar Charge Controller type  MPPT  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  85V  Maximum Battery current  50Amp.  Efficiency  Peverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select),up,Down,Esc.  Reverse current flow to PV  Yes provided  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Phase to Phase protection in mains mode Solar Charge Controller Solar Charge Controller type Max Panel wattage can be connected Upto 1500WATT Maximum PV Voltage Maximum Battery current Solamp Efficiency Severse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge)  DOD (Depth of Discharge)  PMAPT  MPPT MPPT MPPT MPPT MPPT MPPT M	Reverse Battery	DC fuse will burn
Solar Charge Controller  Solar Charge Controller type  Max Panel wattage can be connected  Upto 1500WATT  Maximum PV Voltage  Maximum Battery current  SoAmp.  Efficiency  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select),up,Down,Esc.  Reverse current flow to PV  Yes provided  Sharing of current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Solar Charge Controller Solar Charge Controller type Max Panel wattage can be connected Upto 1500WATT Maximum PV Voltage 85V Maximum Battery current 50Amp.  Efficiency Switches Reverse PV protection Switches Reverse current flow to PV Yes provided, it will also display on LCD panel Switches Reverse current when PV and Grid Both are available If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  20%- if battery voltage is 12.5V ±0.2V Each Battery 40%- if battery voltage is 11.5V±0.2V Each Battery		
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Maximum Battery current  50Amp.  Efficiency  > 93%  Reverse PV protection  Yes provided, it will also display on LCD panel  Switches  Menu(Select), up, Down, Esc.  Reverse current flow to PV  Yes provided  Sharing of current when PV and Grid Both are available  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge)  If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Maximum Battery current  Efficiency  Reverse PV protection  Switches  Reverse current flow to PV  Sharing of current when PV and Grid Both are available  DOD definition(Depth of Discharge)  DOD (Depth of Discharge)  DOD (Depth of Discharge)  Maximum Battery current  Spansor  Spanso		·
Efficiency > 93%  Reverse PV protection Yes provided, it will also display on LCD panel  Switches Menu(Select),up,Down,Esc.  Reverse current flow to PV Yes provided  Sharing of current when PV and Grid Both are available If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge) If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.	Efficiency > 93%  Reverse PV protection Yes provided, it will also display on LCD panel  Switches Menu(Select), up, Down, Esc.  Reverse current flow to PV Yes provided  Sharing of current when PV and Grid Both are available If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  DOD definition(Depth of Discharge) If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.  20%- if battery voltage is 12.5V ±0.2V Each Battery  30%- if battery voltage is 12.0V±0.2V Each Battery  40%- if battery voltage is 11.5V±0.2V Each Battery		
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	DOD (Depth of Discharge)  20%- if battery voltage is 12.5V ±0.2V Each Battery  30%- if battery voltage is 12.0V±0.2V Each Battery  40%- if battery voltage is 11.5V±0.2V Each Battery	Sharing of current when PV and Grid Both are available	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.
20%- if battery voltage is 12.5V ±0.2V Each Battery	DOD (Depth of Discharge)  30%- if battery voltage is 12.0V±0.2V Each Battery  40%- if battery voltage is 11.5V±0.2V Each Battery	DOD definition(Depth of Discharge)	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.
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DOD. (Depth of Discharge)	40%- if battery voltage is 11.5V±0.2V Each Battery		30%- if battery voltage is 12.0V±0.2V Each Battery
40%- if battery voltage is 11.5V±0.2V Each Battery			40%- if battery voltage is 11.5V±0.2V Each Battery
	50%- if battery voltage is 11.0V±0.2VEach Battery		50%- if battery voltage is 11.0V±0.2VEach Battery

## **SAMSUN MPPT PCU 2000/24V**



Display and Alarms	
LCD Initial Display	Welcome, SAMSUN Website Address, System Capacity, Charging Till 90VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battery Type Selected LA / SMF / Tubular, DOD.
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Battery Current, PV Current, PV Voltage.  Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut
LCD Fault / Protection Status Display	Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed
Buzzer	Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed
Safety	
HV Test Input to Earth	Leakage current <5mA when 1.5kV applied for 1 min
HV Test Output to Earth	Leakage current <5mA when 1.5kV applied for 1 min
IR Test Input to Earth	>5MΩ between @ 500VDC
IR Test Output to Earth	>5MΩ between @ 500VDC
Earth Leakage current in Mains mode	< 2.5mA
Earth Leakage current in Backup mode	< 2.5mA
Environment	
Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing
Weight and Dimensions	
Dimensions	425X315X335
Weight(Kg)	20



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