



Harness nature's power
for a promising tomorrow



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Solar Panel | Off Grid PCU | On Grid Inverter | Solar Conversion Kit | Solar Battery



www.microtek.in

SOLAR EXPERTISE



Certified Excellence

All our products meet international IEC standards and national BIS requirements, affirming our commitment to quality and reliability.

Innovation at Scale

Our global R&D centre pioneers advancements in solar technology, ensuring state-of-the-art solutions for sustainable energy.



Expertise that Delivers

Our team comprises industry veterans and certified professionals dedicated to designing and implementing efficient solar solutions.



Safety First

We adhere strictly to governmental safety protocols, ensuring all our installations are secure and risk-free.



Consistent Quality Assurance

Regular quality assessments at key production stages guarantee our solar products' high performance and durability.

WHY CHOOSE US?

Decades of Game Changing Innovation

For over three decades, Microtek has delivered best-in-class products, earning a reputation for reliability and excellence.

Cutting-Edge Production

Our 10 state-of-the-art manufacturing units embody our commitment to innovation and exceptional quality.

Trusted Quality

As India's No.1 UPS brand, with large market share, Microtek is synonymous with stability and trust in power solutions.

Trusted by India

Recognized as India's most preferred and trusted brand, Microtek stands at the forefront of technological reliability.



OFF-GRID SOLAR ROOFTOP SOLUTIONS

Embrace energy independence with Microtek's Off-grid Solar Rooftop Solution. This standalone system harnesses sunlight to generate electricity, stores it in high-capacity batteries, and powers your home without relying on the utility grid. Perfect for remote locations or those seeking complete energy autonomy, our off-grid solution ensures you stay powered up, even when the world goes dark.



GST tax benefit
(entire combo
at 12%)



Optimized
performance



Single point
of service

ON-GRID SOLAR ROOFTOP SOLUTIONS

Maximize savings and efficiency with Microtek's On-Grid Solar Rooftop Solution. This intelligent system seamlessly integrates with your local utility grid, allowing you to use solar power when available and grid electricity when needed. Enjoy the best of both worlds, reduce your carbon footprint and electricity bills while maintaining the reliability of grid connection, all while potentially earning credits for excess energy produced.



Pan-India
service



Optimized
performance



Single point
of service



SOLAR SOLUTIONS FOR EARTH'S FUTURE



Solar Panel | Off Grid PCU | On Grid Inverter | Solar Conversion Kit | Solar Battery

WIDE RANGE OF WORLD CLASS SOLAR PRODUCTS

SOLAR PANELS



GRID TIE INVERTERS



POWER CONDITIONING UNITS (PWM)



POWER CONDITIONING UNITS (MPPT)



SOLAR MANAGEMENT UNIT



SOLAR BATTERY



SOLAR CABLE



SOLAR CHARGE CONTROLLER

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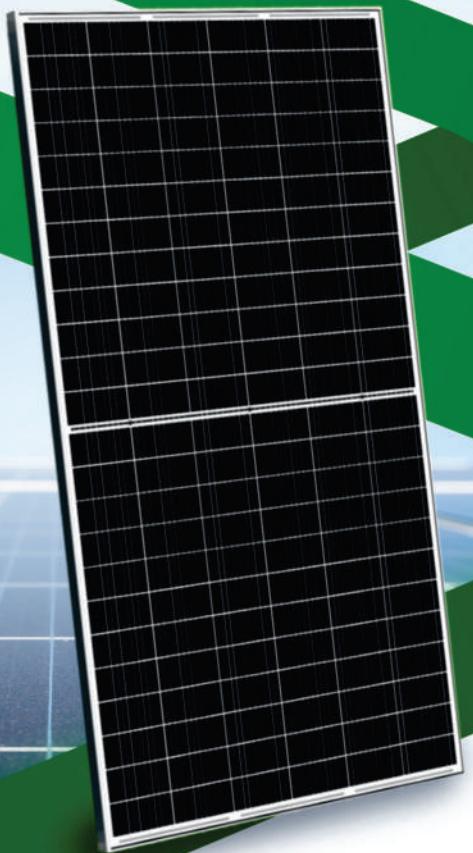
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HALF-CUT MONO PERC SOLAR PANEL



Microtek panels are made with state-of-the-art technology and high-grade premium components

- MBB Half-Cell Technology provides better performance under partial shading
- Anti-reflective (AR) Coated Glass: Enhances power
- Excellent Module Efficiency: With bifacial power gain (applicable to bifacial modules)
- Pre and Post EL Checking: With a high-resolution camera



Positive power tolerance:
Ensures full energy harvesting and better return on investment.

Suitable for extreme weather:
Tempered glass withstands dynamic wind load of 2400 Pa and snow load of 5400 Pa. Multi EVA encapsulation for better module protection.

PID free:
For longer life, lower degradation, and long-term reliability.

Ideal for
Off-grid, On-grid, and hybrid applications; large-scale utility plants, rooftop, commercial, industrial, and residential plants; agriculture pumping solutions.

Technical Specifications

ELECTRICAL CHARACTERISTICS		
MODEL	MTK RSB540/24V DCR	MTK PE550HM/24V
Nominal Max. Power (Pm) in Watts	540W	550W
Power Tolerance	0 TO +4.99W	0 TO +4.99W
Open circuit voltage (Voc) in volts	49.78V	50.06V
Short circuit current (Isc) In Amps	13.53A	13.65A
Voltage at Max. Power (VmP) In volts	41.86V	42.14V
Current at Max. Power (ImP) In Amps	12.91A	13.06A
Module conversion efficiency	20.94%	21.32%
Max. System voltage in volts	1500V	1500V

Under Standard Test Conditions (STC) of 1000 W/m² irradiance, AM 1.5 spectrum and 25°C cell temperature.

** Full cell technology

MECHANICAL CHARACTERISTICS		
MODEL	MTK RSB540/24V DCR	MTK PE550HM/24V
Length x Width x Thickness (LxWxT)	2278x1133x40	2278x1133x40
Mounting Holes Pitch (X) mm	1095	1095
Mounting Holes Pitch (Y) mm	(A) 1400 (B) 1100	(A) 1400 (B) 1100
Weight (Kgs)	28.6	28.6
Solar Cell Arrangement	144/ (24x6)	144/ (24x6)
Solar cell Type	MONO PERC BIFACIAL	MONO PERC BIFACIAL
Frame Material	Anodized Aluminum Alloy	Ionized Aluminum Alloy
Junction Box	540-IP 68, 3Bypass Diodes, Split Junction box	550- IP 68, Bypass Diodes, Split Junction box

*Specifications are subject to change without any notice. The company does not take liability for consequential damages.



POLY CRYSTALLINE SOLAR PANEL

Microtek panels are made with state-of-the-art technology and high-grade premium components:

- Excellent Module Efficiency
- Pre and Post EL Checking with high-resolution camera
- 100% Hi-pot Testing: Ensures safety



Positive power tolerance:
Ensures full energy harvesting and better return on investment.



Suitable for extreme weather:
Tempered glass withstands dynamic wind load of 2400 Pa and snow load of 5400 Pa. Multi EVA encapsulation for better module protection.



PID free:
For longer life, lower degradation, and long-term reliability.



Ideal for
Off-grid, On-grid, and hybrid applications; large-scale utility plants, rooftop, commercial, industrial, and residential plants; agriculture pumping solutions.

Technical Specifications

ELECTRICAL CHARACTERISTICS				
MODEL	MTK 50/12	MTK 75/12	MTK 100/12	MTK 165/12
Nominal Max. Power (Pm) in Watts	50	75	100	165
Power Tolerance			+ve Tolerance only	
Open circuit voltage (Voc) in volts	21.90V	21.90V	21.90V	22.50V
Short circuit current (Isc) in Amps	3.06A	4.59A	6.12A	9.22A
Voltage at Max. Power (Vm) in volts	17.96V	17.96V	17.96V	18.95V
Current at Max. Power (Im) in Amps	2.81A	4.18A	5.57A	8.72A
Maximum system voltage in volts			+ve Tolerance only	

*Under Standard Test Conditions (STC) of 1000 W/m² irradiance, AM 1.5 spectrum and 25°C cell temperature.

MECHANICAL CHARACTERISTICS

MODEL	MTK 50/12	MTK 75/12	MTK 100/12	MTK 165/12
Length x Width x Thickness (LxWxT)	550x670x35	775x670x35	1017x670x35	1495x670x35
Mounting Holes Pitch (X) mm	200	400	500	980
Mounting Holes Pitch (Y) mm	635	635	635	635
Weight (Kgs)	5.62	6.26	7.7	10.87
Solar cell per Module (Units) / Arrangement	36/(9x4)	36/(9x4)	36/(9x4)	36/(9x4)
Solar cell Type	Multi Crystaline Silcon			
Front cover (Material/ Thickness)	Tempered & Low Iron Glass / 3.2 mm			
Encapsulate	Ethylene vinyl Acetate			
Frame Material	Anodized Aluminum Alloy			
Junction Box	IP65 3 Rail/2D with Bypass Diodes			IP-65, 3-Rail, 2 Diodes, 1 Mtr 4 Sq.mmWire with MC4 Connector

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GRID TIE INVERTER



Microtek's Grid Tie inverters are available in single and three-phase configurations. Built with next-generation state-of-the-art technology to ensure maximum harness of solar energy and fastest investment payback period. Online performance monitoring through a mobile application. The entire range is compatible with zero export smart solutions.



LCD + LED display
For better system monitoring.



Maximum Power Point Tracking Technology
Real-Time Precise MPPT algorithm for increased efficiency and better performance.



IP65 Protection
It's built to operate flawlessly even during tough weather conditions and extreme temperature variations.

Technical Specifications

MODEL	GTI 1KW-M11	GTI 2.2KW-M11	GTI 3.3KW-M11	GTI 4KW-M12	GTI 5KW-M12		
Single Phase, 1-MPPT							
PV INPUT (DC)							
MAX. INPUT POWER	1500W	3000W	4500W	6000W	7500W		
MAX. DC POWER FOR SINGLE MPPT	1500W	3000W	4500W	3500W	3750W		
MAX. INPUT VOLTAGE	500V		550V	600V			
START-UP INPUT VOLTAGE	70V			90V	80V		
RATED INPUT VOLTAGE	360V			380V			
MPPT OPERATING VOLTAGE RANGE	50-500V			80-550V			
FULL POWER MPPT VOLTAGE RANG	E110-450V	200-450V	300-500V	200-500V	210-500V		
MAX. INPUT CURRENT PER MPPT	12A		13A	15A/15A			
MAX. DC I/P SHORT CIRCUIT CURRENT PER MPPT	15A		15A	22.5A/22.5A			
NUMBER OF MPPT/ STRING PER MPPT	1/1		1/1	2/1			
DC INPUT TERMINAL TYPE	MC4/H4						
OUTPUT (AC)							
RATED POWER	1100W	2200W	3300W	4000W	5000W		
MAX. AC OUTPUT POWER IN VA	1100VA	2200VA	3300VA	4400VA	5500VA		
MAX. OUTPUT CURRENT	5A	11A	16A	20A	25A		
NOMINAL GRID VOLTAGE	L/N/PE,220VAC,230VAC,240VAC						
GRID VOLTAGE RANGE	180VAC-276VAC (ACCORDING TO LOCAL STANDARD)						
NOMINAL FREQUENCY	50HZ/60HZ						
GRID FREQUENCY RANGE	45 ~55HZ/54 ~66HZ						
THDi	<3%						
EFFICIENCY							
MAX. EFFICIENCY (DC-AC)	97.50%		98.20%	98.40%			
EUROPEAN WEIGHTED EFFICIENCY	96.90%		97.20%	97.30%	97.50%		
PROTECTION							
PROTECTION	ANTI - ISLANDING, DC REVERSE POLARITY, OVER TEMP, LEAKAGE CURRENT, OVER VOLTAGE, OVER CURRENT, EARTH FAULT						
SPD	MOV: TYPE-III STANDARD						
COMMUNICATION							
STANDARD COMMUNICATION MODE	USB, RS485, WIFI/GPRS/ETHERNET (OPTIONAL)			RS485,WIFI/GPRS(OPTIONAL)			
GENERAL DATA							
TOPOLOGY	TRANSFORMERLESS						
AMBIENT TEMPERATURE RANGE	- 30°...+ 60°C						
ALLOWABLE RELATIVE HUMIDITY RANGE	0...100%						
NOISE	<25DB@1M						
DC SWITCH	OPTIONAL						
COOLING	NATURAL CONVECTION						
MAX. OPERATING ALTITUDE	2000m		4000m				
DIMENSION (mm)	303*260.5*118			349*344*164			
SUPPORT BRACKET	WALL MOUNTED						
WEIGHT	5.5KG	6.3KG	9.2KG	10KG			
DISPLAY	LCD+LED			LCD DISPLAY			
DEGREE OF PROTECTION	IP65						
SELF - CONSUMPTION AT NIGHT	<1W						
STANDARD							
EMC	EN 61000-6-1, EN 61000-6-2, EN61000-6-3, EN61000-6-4						
SAFETY STANDARDS	IEC 62116,IEC61727,IEC60068(1.214.30),IEC62109-1/2						
GRID STANDARDS	AS4777,VDE V0124-100,VDE V0126-1-1VDE-AR-N4105, EN5043B,G83/2,C10/11,RD1699						

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Technical Specifications

MODEL	GTI 5.5KW 3-PH-M32	GTI 8.8KW 3-PH-M32	GTI 11KW 3-PH-M32	GTI 12KW 3-PH-M32	GTI 15KW 3-PH-M32		
3-Phase DUAL MPPT							
INPUT PV (DC)							
MAX. PV INPUT POWER	7500W	12000W	15000W	18000W	22500W		
MAX. DC POWER FOR SINGLE MPPT	6000W	7500W	7500W	7500/15000W	15000W		
NUMBER OF INDEPENDENT MPPT	2						
NUMBER OF DC INPUTS	1 FOR EACH MPPT		1 + 2		2 + 2		
MAX. PV INPUT VOLTAGE	1100V						
START-UP PV INPUT VOLTAGE	160V						
RATED PV INPUT VOLTAGE	650V						
MPPT VOLTAGE RANGE	140V-1000V						
FULL POWER MPPT VOLTAGE RANGE	240V-850V	380V-850V	420V-850V	460V-850V	420 - 850V		
MAX PV INPUT CURRENT PER MPPT	15A/15A		15A/30A		26A / 26A		
I/P SHORT CIRCUIT CURRENT PER MPPT	22.5/22.5A		22.5/45A		36A / 36A		
OUTPUT (AC)							
RATED POWER	5000W	8000W	10000W	12000W	15000W		
MAX. AC POWER	5500VA	8800VA	11000VA	13200VA	16500VA		
MAX OUTPUT CURRENT PER PHASE	8.3A	13.3A	16.7A	20A	23.9A		
NOMINAL GRID VOLTAGE	3P/N/PE,230/400V						
GRID VOLTAGE RANGE	310 ~480V (According to Local Standard)						
NOMINAL FREQUENCY	50/60HZ						
GRID FREQUENCY RANGE	50HZ, +/- 5HZ (According to Local Standard)						
ACTIVE POWER ADJUSTABLE RANGE	0 ~100%						
THDi	<3%						
POWER FACTOR	1(ADJUSTABLE + -0.8)						
PERFORMANCE							
MAX. EFFICIENCY (DC-AC)	98%						
WEIGHTED EFF. (EU/CEC)	97.50%						
SELF-CONSUMPTION AT NIGHT	<1W						
FEED-IN START POWER	45W						
MPPT EFFICIENCY	>99.9%						
PROTECTION							
DC REVERSE POLARITY PROTECTION	DC REVERSE POLARITY, DC SWITCH, PV : type-II Standard, AC : type-II Standard, Anti Islanding, RCMU, Ground Fault Monitoring, ANTI REVERSE POWER FUNCTION (OPTIONAL)						
COMMUNICATION							
STANDARD COMMUNICATION MODE	RS485 & WIFI, GPRS(OPTIONAL)						
GENERAL DATA							
AMBIENT TEMPERATURE RANGE	- 30°...+ 60°C						
TOPOLOGY	Transformer-less						
DEGREE OF PROTECTION	IP65						
ALLOWABLE RELATIVE HUMIDITY RANGE	0...100% No Condensing						
MAX. OPERATING ALTITUDE	4000m						
NOISE	<40dB						
WEIGHT	17KG	18KG		20KG			
COOLING	NATURAL			FAN			
DIMENSION (mm)	430 * 385 * 182	430 * 385 * 182	430 * 385 * 182	430 * 385 * 182	520 * 430 * 189		
DISPLAY	LCD DISPLAY						
CERTIFICATION	IEC 62116, IEC 61727, IEC 61683, IEC 60068(I.2.14.30), IEC 62109-1/2 CE,CGC, AS4777, AS3100, VDE4105, C10-C11, G83/59						

Technical Specifications

MODEL	GTI 20KW 3-PH-M32	GTI 30KW 3-PH-M33	GTI 40KW 3-PH-M34	GTI 50KW 3-PH-M34			
	3-Phase DUAL MPPT	3-Phase 3-MPPT	3-Phase 4-MPPT				
	INPUT PV (DC)						
MAX. PV INPUT POWER	30000W	45000W	60000W	75000W			
MAX. DC POWER FOR SINGLE MPPT	15000W	25000W	25000W	25000W			
NUMBER OF INDEPENDENT MPPT	2	3	4				
NUMBER OF DC INPUTS	2 + 2						
MAX. PV INPUT VOLTAGE	1100V						
START-UP PV INPUT VOLTAGE	160V						
RATED PV INPUT VOLTAGE	650V						
MPPT VOLTAGE RANGE	140 - 1000V						
FULL POWER MPPT VOLTAGE RANGE	480 - 850V						
MAX PV INPUT CURRENT PER MPPT	26A / 26A						
I/P SHORT CIRCUIT CURRENT PER MPPT	36A / 36A						
OUTPUT (AC)							
RATED POWER	20000W	30000W	40000W	50000W			
MAX. AC POWER	22000VA	34000VA	44000W	55000VA			
MAX OUTPUT CURRENT PER PHASE	31.9A	51.5A	66.7A	83.3A			
NOMINAL GRID VOLTAGE	3P/N/PE,230/400V						
GRID VOLTAGE RANGE	310 ~480V (According to Local Standard)						
NOMINAL FREQUENCY	50/60HZ						
GRID FREQUENCY RANGE	50HZ, +/- 5HZ (According to Local Standard)						
ACTIVE POWER ADJUSTABLE RANGE	0 ~100%						
THDi	<3%						
POWER FACTOR	1(ADJUSTABLE + -0.8)						
PERFORMANCE							
MAX. EFFICIENCY (DC-AC)	98.60%						
WEIGHTED EFF. (EU/CEC)	98.20%						
SELF-CONSUMPTION AT NIGHT	<1W						
FEED-IN START POWER	45W						
MPPT EFFICIENCY	>99.9%						
PROTECTION							
PROTECTION	DC REVERSE POLARITY, DC SWITCH, PV : type-II Standard, AC : type-II Standard, Anti Islanding, RCMU, Ground Fault Monitoring, ANTI REVERSE POWER FUNCTION (OPTIONAL)						
COMMUNICATION							
STANDARD COMMUNICATION MODE	RS485 & WIFI, ETHERNET (OPTIONAL)						
GENERAL DATA							
AMBIENT TEMPERATURE RANGE	- 30°...+ 60°C						
TOPOLOGY	Transformer-less						
DEGREE OF PROTECTION	IP65						
ALLOWABLE RELATIVE HUMIDITY RANGE	0...100% No Condensing						
MAX. OPERATING ALTITUDE	4000m						
NOISE	<40dB	<60dB		<60dB			
WEIGHT	22KG	36KG	37KG				
COOLING	FAN						
DIMENSION (mm)	520 X 430 X 189MM						

Technical Specifications

MODEL	GTI 60KW 3PH-G3	GTI 80KW 3PH-G3	GTI 100KW 3PH-G3
INPUT (DC)			
Recommended Max input power (WP)	90000WP	120000WP	150000WP
Number of MPP / Number for DC inputs		6/ 2per MPPT	10 / 20
Max. Input voltage / start up voltage / Rated input voltage		1100 / 200 / 625	
Max. Operating voltage Range / full Power MPPT voltage Range		180-1000 / 550-800	
Max. Input MPPT current per MPPT	32A*6	40A*6	32A*10
Max. Input short circuit current per MPPT	50A*6	60A*6	50A*10
OUTPUT (AC)			
Related Power / Max AC Power	60KW / 66kVA	80KW / 88kVA	100KW / 110kVA
Max. Output Current	100A	133.3A	160A
Nominal Grid voltage / Grid voltage range	Nominal:3N/PE, 230/400VAC / Grid : 310 VAC (According to local standards)		
Nominal Frequency / Grid Frequency Range	Nominal : 50/60Hz / Grid : 45Hz~55Hz / 55Hz~65Hz (According to local standards)		
Active Power Adjustable Range	0 ~ 100%		
THDi / Power Factor	<3% / 1 default (adjustable ± 0.8)		
PERFORMANCE			
Max. Efficiency / European Efficiency	98.70% / 98.20%		
PROTECTIONS			
DC Reverse Polarity Protection / Anti-islanding Protection	Yes		
Leakage current protection	Yes		
Ground Fault Monitoring	Yes		
PV-Array string Fault Monitoring / Anti- Reverse power Function	Yes		
DC Switch	Optional		
Protection Class / Over Voltage Category	I / III		
Input / output SPD	PV Type II standard AC: Type II Standard		
COMMUNICATION			
Communication	RS485 / Bluetooth (Optional; WiFi / Ethernet)		
GENERAL DATA			
Ambient Temperature Range	-30°C ~ + 60°C		
Self Consumption at Night	<2W		
Topology / Degree of Protection	Transformerless / IP66		
Allowable Relative Humidity Range / Max Operating Altitude	0 ~ 100% / 4000m		
Noise / Cooling	≤60dB / Smart Forced Air cooling		
Dimension / Weight (mm/kgs)	687x561x275 / 50	995.5x663.5x368 / 90	
Display	LCD, APP via Bluetooth		
STANDARD			
EMC	EN /IEC 61000-6-2, EN/IEC 61000-6-4 RoHs RED		
Safety Standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683; IEC60068(1,2,14,30), IEC 60255		
Grid Standard	AS/NZS 4777, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 217002-2020 EN 50549, G99 NI, EN 50530, NB/T32004		

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Technical Specifications

MODEL	GTI 125KV 3PH-G4	GTI 250KV 3PH-HB
INPUT (DC)		
Max. Input Voltage / Rated Input Voltage / Input Voltage Start-up voltage	1100V / 625V / 200V	1500V / 1080V / 550V
MPPT Operating Voltage Range	180V-1000V	500V-1500V
Full Power MPPT Voltage Range	500V-850V	800V-1300V
Number of MPP Tracker / Number for DC inputs	10 / 20	12 / 24
Max. Input MPPT current per MPPT	40A*10	30A*12
Max. Input short circuit current per MPPT	50A*10	50A*12
OUTPUT (AC)		
AC Output Power	125kVA@45°C / 110kVA@50°C	250kVA@30°C/235kVA @40°C/220kva@50°C
Max. Output Current	190A@380V / 181.2A@400V / 174A@415V	180.5A
Nominal Grid Voltage / Grid Voltage Range	3/N/PE, 380Vac/400Vac/415Vac/ Grid:310-480Vac	3/N/PE 800Vac / 640Vac-920Vac
Nominal Frequency / Grid Frequency Range	Nominal 50 / 60Hz / Grid 55~65Hz (According local Standard)	
Active Power Adjustable Range	0~100%	
THDi / Power Factor	<1% (@100%P) / 1 default (Adjustable ± 0.8)	<3% (@100%P) / 1 default (Adjustable ± 0.8)
PERFORMANCE		
Max. efficiency / European Efficiency	98.75% / 98.30%	99.01% / 98.8%
PROTECTIONS		
DC Reverse Polarity Protection / Anti-islanding Protection	Yes	
Leakage current protection / Grid voltage Range	Yes	
PV-Array string Fault Monitoring	Yes	
High/Low Voltage Ride Through / DC switch	Yes	
PID Recovery / AFCI Protection	Yes	Optional
Protection Class / Over Voltage Category	I/III	
Input / output SPD	PV: Type II Standard AC: Type II standard	
COMMUNICATION		
Communication	RS485 / WiFi	RS485 / USB / Bluetooth, Optional WiFi / GPRS / PLC
GENERAL DATA		
Ambient Temperature Range	-30°C~+60°C	
Self Consumption at Night	<1W	<2W
Topology / Degree of Protection	Transformerless / IP66	
Allowable Relative Humidity Range / Max Operating Altitude	0-100% / 4000m(>3000m derating)	
Noise / Cooling	≤60dB / Smart Forced Air cooling	
Dimension / Weight (mm/kgs)	970x695x325 / 75	1100.5x713.5x368 / 99
Display	LCD & Bluetooth+APP	
STANDARD		
EMC	EN /IEC 61000-6-2, EN/IEC 61000-6-4	
Safety Standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683; IEC60068(1,2,14,30)	
Grid Standard	AS/NZS 4777, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 217002-2020 EN 50549, G99 NI, EN 50530, NB/T32004	

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MPPT-BASED SOLAR PCU

Microtek's MPPT-based PCU is the ideal solution for Off-grid applications. In addition to being highly efficient, the PCU smartly optimizes battery charging and power distribution among solar, battery, and grid power.

Ideal for heavy loads like submersible pumps and air conditioners from 2KVA onwards.



- Advanced Smart Real-time Clock
In-built Smart RTC solar selection to save power and maximize savings.
- Pure DSP Sine Wave Technology:
State-of-the-art pure sine wave output for noiseless operation.
- State-of-the-art MPPT Technology:
Ensures 30% more energy generation from solar modules.
- Smart Logic Built-in Software:
Maintains battery gravity and enhances battery life.

Technical Specifications

MODEL SOLAR PCU	1KVA/24V	2KVA/24V	3KVA/24V
Capacity (VA / WATT)	1000VA/800W	2000VA/1600W	3000VA/3000W
INPUT PARAMETERS			
Input Voltage Range		100V-300V Settable	
Nominal Input batt. volt	24V	24V	48V
Waveform Type		PURE SINE WAVE	
Output Frequency		50Hz± 0.5Hz	
MPPT SOLAR CHARGER			
Type / Solar Panel VOC	MPPT / Min 30-78V Max	MPPT / Min 30-94V Max	MPPT / Min 60-170V Max
Max Panel Current	18A	34A	30A
ENVIRONMENT			
Operating Temp.		0-40°C; 32-104°F	
Relative Humidity		0-95% non-condensing	
Audible Noise		Less than 55dBA (at 1M)	
PROTECTION			
Low Battery Indication	21.2± 0.6Vdc	21.2± 0.6Vdc	42.4± 0.8Vdc
Low battery Shut down	21.2± 0.6Vdc	21.0± 0.6Vdc	41.0± 0.8Vdc
Output Overload		Electronic @>100% Load	
Output Short circuit with solar		Electronic current limiting with shut down + MCB	
BATTERY CHARGING VOLTAGE			
Boost Voltage w.r.t battery type	FLA/Local/LifePO4=28.0V; SMF=28.4V; TUB=28.8V (Default); Tolerance± 0.6V	FLA/Local/LifePO4=28.0V; SMF=28.4V; TUB=28.8V (Default); Tolerance± 0.6V	FLA/Local/Life PO4=56.0V; SMF=56.8V; TUB=57.6V (Default); Tolerance± 0.8V
Keypad settable Boost Voltage	27.8Vdc to 29.8Vdc± 0.6V@0.1V Step	27.8Vdc to 29.8Vdc± 0.6V@0.1V Step	55.6Vdc to 59.6Vdc± 0.8V@0.1V Step
Float Voltage	27.4Vdc ± 0.6V no float for lithium battery bank	27.4Vdc ± 0.6V no float for lithium battery bank	54.8Vdc ± 0.8V no float for lithium battery bank
Keypad settable float voltage	26.6Vdc to 27.8Vdc± 0.6V@ 0.1V step	26.6Vdc to 27.8Vdc± 0.6V@ 0.1V step	53.2Vdc to 55.6Vdc± 0.8V@ 0.1V step
PHYSICAL			
Dimensions (LxWxH) mm	396x289x146	527x255x426	527x255x426
Net Weight (Kgs)	16.7Kgs	32.7Kgs	39.2Kgs

*Specifications are subject to change without any notice. The company does not take liability for consequential damages.



MPPT-BASED SOLAR PCU

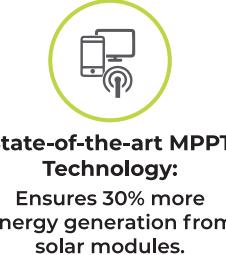
For High End Solutions

Microtek's MPPT-based PCU is the ideal solution for off-grid applications. In addition to being highly efficient, the PCU smartly optimizes battery charging and power distribution among solar, battery, and grid power.

Ideal for heavy load like submersible pump, air conditioner from 2KVA onwards.



USER FRIENDLY
LCD DISPLAY



Technical Specifications

MODEL SOLAR PCU MPPT	5KVA/48V	8070/96V	10070/120V
PV Controller Topology		MPPPT	
Rated Capacity	5KVA	7.5KVA	10KVA
Battery Nominal Voltage	48V	96V	120V
Maximum solar Input Power (W)	5000W	7680W	9250W
Maximum solar input Voltage (Voc)	190V	280V	350V
MPPT Operating Voltage Range (Vmp)	70V~160V	180V~230V	180V~280V
Maximum PV input Current (A)	31.25± 1A	34A± 1A (17A/Channel, Total Channel -2)	
Peak Charge Controller Efficiency		98%	
Max. Battery Charging Current From PV (A)		40 Amps. (Default) Settable from 5 to 50 Amps. for battery	
Grid Input Voltage Range		Normal Mode: 100V-280V UPS Mode: 180V-260V	
Max. Battery Charging Current from Grid (A)		16Amp default(Settable from 5Amp to 16Amp)	
Continuous Output Power (W)	5000W	6000W	8000W
No. of Output Phase		1 Phase	
Inverter Output Voltage at Nominal DC		230V± 3%	
Output Frequency		50Hz± 1%	
THD		≤3% (at Linear Load)	
Transfer Time		Normal Mode: Mains to back-up <40msec back-up to Mains <15mSec UPS Mode: Mains to Back up <12mSec back up to mains <10mSec	
Most advanced Real time clock technology		RTC ensures Optimum saving of solar energy	
Intelligent Sharing of PV Current and Grid		State of the art inbuilt technology ensures four level of solar saving settings SL1, SL2, SL3, and SL4, Selectable from front panel meeting requirement of all types of users	
Protections		Battery Over voltage, overcharge, PV Reverse Polarity, PV Reverse current flow, PV surge, Overload, Inverter over Temperature and Load Short circuit Protections	
Clearance on all side for installation		Recommended 1 Feet	
Operating Temperature / Relative Humidity		0~45% / 5%-95% Non Condensable	
Weight (Kgs) Net/ Gross	52.95 / 55.55	76.2 / 81.15	76.2 / 81.15
Dimensions (LxWxH) in mm	448.5x257x611		484x277x775

*Specifications are subject to change without any notice. The company does not take liability for consequential damages.

SOLAR POWER CONDITIONING UNIT (PWM)

Microtek's solar PCU is a hybrid inverter that intelligently uses both grid and solar power. It operates within a wide voltage range, making it an ideal solar solution for homes.

Ideal for heavy loads like submersible pumps and air conditioners from 2.2KVA onwards.



USER FRIENDLY
LCD DISPLAY



Noiseless operation:
Pure sine wave technology makes the running smooth and noiseless.



Maximized solar energy usage:
Designed to maximize solar energy usage and minimize your electricity bill.



Safety & protection:
In-built protection against short circuits, deep discharges, overcharges, and excessive current.



Smart & normal modes:
Intelligent selection modes for smart solar UPS and normal UPS.

Technical Specifications

MODEL SOLAR PCU	PCU 1235N/12V	PCU 1450/12V	PCU 2035N/24V	PCU 2350/24V
Input Voltage	Wide Input voltage Range 100V-280V	Narrow Input Voltage Range 170V-260V		
Output Voltage on mains Mode		Same as Input Voltage		
Output voltage on UPS mode	210V± 10%	230V± 10%	210V± 10%	230V± 10%
Output Frequency on UPS mode		50 Hz ± 0.1Hz		
Switching		From Mains to UPS and from UPS to mains Automatic		
Output Waveform on mains mode		Same as input		
Output Waveform on UPS mode		Pure Sinewave		
Battery Charging Current Mains		Constant Charging approx 10% of the rated battery current in AH		
Maximum Solar Panel Current	30A	50A	30A	50A
Solar Over Current Capacity		20%		
Mains Mode Charger		Power Factor controlled boost Technology		
Peak Efficiency		>80%		
UPS Overload/ UPS Short circuit		110% / 300%		
UPS Transfer Time		< 15 msec		
Technology		DSPIC Micro controller Based Design		
Auto Reset Feature		Yes		
Reverse Panel Protection		Yes		
Charging Profile With solar		Complete		
Solar charger / Normal charger Modes		Slide switch to select charger mode		
Battery Deep Discharge Pickup Capacity		Yes		
Thermal Protection		Both in Grid charging & Backup mode		
Cooling Fan Control		Both by Load & Temperature and in charging mode too		
Output Voltage Fluctuation (Backup Mode)		Not at all		
Display Indications		LCD (16x2) for Display		
Grid Units Saved Till Date Info		KWH Indication Present		
Solar Power Available at the moment info		WATT Indication Present		
DC input volt. High cut Protection/ Reconver		Yes		
Maximum Solar Power rating	45W to 600W	45W to 1000W	100W to 1200W	100W to 2000W
Operating Temperature		0-45°C		
Gross Weight	10.22Kgs	11.44Kgs	17.50Kgs	19.12Kgs
Dimensions (LxWxH) in mm	390x388x200	390x388x200	460x430x220	460x430x220

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SOLAR PCU (PWM) FOR HIGH-END SOLUTIONS

Microtek's Power Conditioning Unit (PCU) is a high-efficiency solar inverter that runs on both solar and grid power supplies. Its built-in SMU extracts maximum power from solar modules to power your appliances and charge your battery.

Ideal for heavy loads like submersible pumps and air conditioners from 2.2KVA onwards.



USER FRIENDLY
LCD DISPLAY



Smart Real-time Clock:
In-built Smart RTC solar selection to save power and maximize savings.



Pure Sine Wave Technology:
State-of-the-art pure sine wave output for noiseless operation.



Efficient battery charging:
The battery charges even at 90V low voltage.



Remote monitoring:
Via WiFi, LAN, or GPRS.

Technical Specifications

MODEL	2550/24V	4050/48V	6kVA/48V
PV Controller Topology		PWM	
Rated Capacity	2.2KVA	3.5KVA	6KVA
Battery Nominal Voltage	24V	48V	48V
Grid Input Voltage Range	Normal Mode: 90V-290V UPS Mode: 180V-265V"	Normal Mode: 85V~295V UPS Mode: 180V~265V	
Maximum Solar Input Power (w)	1800W	3600W	6600W
Maximum solar Input Voltage (VOC)	49	98	98
Solar Charger Controller	50A		70A
No. of output Phase	1Phase		
Inverter Output Voltage at nominal DC	230± 3%		
Output Frequency	50Hz± 0.1Hz		
THD	<3%(at Linear Load)		
Output Waveform on UPS mode	Pure Sinewave		
Battery charging current: mains	Constant charging approx 10% of the rated battery current in AH		
UPS Transfer Time	Normal Mode: Mains to back-up<40mSec Back-up to mains<15mSec UPS Mode: Mains to back up <12mSec Back-up to Mains<10msec		
UPS overload / Short circuit Protections	Available		
Reverses Panel Protection	Available		
Thermal Protection	Both In grid Charging & Backup Mode		
DC Input Volt. High Cut Protection/ Recover	Available		
Most advanced Real Time Clock Technology	RTC ensures optimum Saving of solar energy		
Operating Temperature	0~45°C		
Gross Weight (Kgs)	18.3	31.3	43.5
Dimensions (LxWxH) in mm	405x370x260	400x380x465	517x254x424

*Specifications are subject to change without any notice. The company does not take liability for consequential damages.

Solar PCU (MPPT) Load Application Chart

Model	Battery Volts	VA Capacity	Watt Capacity	SCC Controller Capacity	Max Panels Capacity	Applications
1KVA	24V	1000	800	50 Amps	1000 Watt	Lights, Fans, TV, Coolers, Frigde & other appliances (Total load should not exceed 1000VA/800Watt)
2KVA	24V	2000	1600	100 Amps	2000 Watt	1.5 Ton Inverter A.C. or Lights, Fans, TV, Cooler, Frigde & other appliances (Total load should not exceed 2000VA/1600Watt)
3KVA	48V	3000	2400	60 Amps	3000 Watt	Run 1 HP Submersible pump or 2 Ton inverter A.C. + Lights, Fans & other appliances (Total load should not exceed 3000VA/2400Watt)
5KVA	48V	5000	4000	104 Amps	5000 Watt	2 HP Submersible pump or 2 Ton A.C. or petrol pump 3 Nozzles + Lights, Fans & other appliances (Total loads should not exceed 5000VA/4000Watt)
8070	96V	7500	6000	70 Amps	7920 Watt	Petrol pump 4 Nozzles or 3 Numbers 1.5 Ton Inverte A.C. + Lights, Fans, Commercial Appliances, Frigde, & Coolers (Total load capacity should not exceed 7500VA/6000Watt Capacity)
10070	120V	10000	8000	70 Amps	9240 Watt	Petrol pump 5 Nozzles or 4 Numbers 1.5 Ton Inverter A.C. + Lights, Fans, Commercial Appliances, Frigde, & Coolers (Total capacity should not exceed 10000VA/8000Watt Capacity)

Solar PCU (PWM) Load Application Chart

Model	Battery Volts	VA Capacity	Watt Capacity	SCC Controller Capacity	Max Panels Capacity	Applications
2550	24 V	2200	1760	50 Amp	1980 Watt	Run 1 HP Submersible pump or 1.5 Ton inverter A.C. + Lights, Fans & other Appliances (Total load should not exceed 2200VA/1760 Watt)
4050	48 V	3500	2800	50 Amp	3960 Watt	Run 1.5 HP Submersible pump or 1.5 Ton Non Inverter A.C. + Lights, Fans & other Appliances (Total load should not exceed 3500VA/ 2800Watt)
6 KVA	48 V	6000	4800	70 Amp	5940 Watt	2 HP Submersible pump or 2 Numbers of 1.5 Tons Inverter A.C. OR 1 Number 2 Tons A.C. + Lights, Fans & other appliances (Total load should not exceed 6000VA/4800Watt)



SOLAR MANAGEMENT UNIT

(Solar Conversion Kit)

Smartly Convert Your Normal Inverter into a Solar Inverter

Microtek Solar Management Unit (SMU) converts any existing inverter into solar system. It has in-built intelligence to maximize use of solar energy and is ideal for various DC voltages.



Technical Specifications

MODEL	LCD SMU 1230	LCD SMU 1250	LCD SMU 2430	LCD SMU 2450
Max. solar open circuit voltage (VOC)	25V	25V	50V	50V
Max. solar panel capacity (In Parallel)	150W x 4	150W x 6	320W x4	320W x6
Max. battery Charging Current	35A	50A	35A	50A
Peak Charger Efficiency	96%	96%	96%	96%
System Voltage (V)	12VDC	12VDC	24VDC	24VDC
Battery Full	Tubular Battery	14.6V± 0.3V	14.6V± 0.3V	29.1V± 0.6V
Voltage	Flat Plate Battery	14.2V± 0.3V	14.2V± 0.3V	28.3V± 0.6V
(Solar Charging)	SMF Battery	14.4V± 0.3V	14.4V± 0.3V2	8.7V± 0.6V
	Other Battery	14.8V± 0.3V	14.8V± 0.3V	9.5V± 0.6V
Float Charging Level	13.8V± 0.3V	13.8V± 0.C3V	27.6V± 0.6V	27.6V± 0.6V
Battery Voltage (Mains Disconnect)	Same as Battery full voltage (solar charging)			
Protections	Reverse battery, Reverse PV, Reverse Current from Battery to PV Current, Battery High Voltage, Over Temperature Over PV voltage and short circuit protection			
Auto Battery Selection for 12V/24V	In-Built			
Restart after Over Current & short circuit Protection	After 3 Mins			
Operating Temp. Range / Rel. Humidity	0~40°C / 0~95% Non-Condensing			
Audible Noise (Full Load)	<60dB			
Enclosure Protection	IP20			
Wire Gauge for battery & PV input	10.0 Sq.mm			
Wire Gauge for input Mains & Inverter	1.5 Sq.mm			
Recommended battery capacity	1x 150AH	1x 200AH	2x 150AH	2x 200AH
LCD Display	LCD 16x2			

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SOLAR MANAGEMENT UNIT

(Solar Conversion Kit)

Smartly Convert Your Normal Inverter into a Solar Inverter



Microtek's Solar Management Unit (SMU) converts any existing inverter into a solar system. It has built-in intelligence to maximize the use of solar energy and is ideal for various DC voltages.



USER FRIENDLY LCD DISPLAY



High-efficiency PWM Charging:
Ensures more battery life and improved solar system performance.



High efficiency:
Zero drop SMU with >99% efficiency.



Protection:
In-built short circuit, reverse current, and polarity protection; no risk of electric shocks.



Battery compatibility:
Compatible with all types of batteries: SMF/Flat Plate and Tubular.

Technical Specifications

MODELS	SMU 4850	SMU 9850	SMU 12050	SMU 18050
System Rating	48V-50A	96V-50A	120V-50A	180V-50A
Recommended UPS/INV Range	Up to 6KVA@48V	Up to 7.5KVA@96V	Up to 10KVA@120V	Up to 10KVA@180V
Rating Mains Input current	35.2A	44.6A	59.3A	60.2A
Maximum Charging Current		50A (Can be set via LCD)		
Nominal Battery Voltage	48V	96V	120V	180V
Number of Batteries (in series)	4	8	10	15
Battery High cut off	65V	130V	162.5V	243.75V
Battery High cut off comeback	58V	116V	145V	217.5V
Battery Low Alarm	40V	80V	100V	150V
Battery low alarm Recovery	44V	88V	110V	165V
Priority Selection	SMB / SBM / SOLAR ONLY / MAINS ONLY			
Battery Type Selection	TUB / FLA / SMF / LOCAL			
Peak Charging Efficiency	>98.5%	>99%	>99%	>99%
Panel open circuit Voltage	70-90V	140-180V	170-225V	255-337.5V
Mains Input Phase	1PH (L/N) + PE 3-Wires			
Mains Input Voltage Range	80V-300V (Default); 140V-280V (Standard), 180-265V (Narrow)			
Low line / High Line comeback	Low line loss Voltage + 10V High Line Loss Voltage - 10V			
Mains Input Frequency Range	42~65Hz			
Freq. Low / High Comeback	Freq low loss + 1Hz / Freq. High Loss - 1Hz			
Display	LCD + 2 LEDs (Green+Red)			
Operating / Storage Temp. Range	Operating 0°C~50°C / Storage: -25°C~60°C			
IP Rating	IP 21			
Humidity / Noise leve	10~95% Non-Condensing / ≤45dB			
Dimesions - WxHxD (mm)	333.5x147.8x291.3			
Net Weight (Kgs)	3.31	3.31	3.43	3.56
Ventilation	Forced Air Cooling			
Protections	Reverse Batt. Reverse PV, Reverse Current from Batt. to PV, Over PV current, Batt High voltage, over Temp., PV Short, AC short Protection By breaker, Batt, Inner Short Protection By Breaker			
Inbuilt circuit Breaker	For PV, Battery & Grid			
PV wire Length	≤ 100m (50m PV + & 50m PV-)			
Wire Gauge for Battery & PV	8mm ² ~10mm ² (When the wire length is over 10"+""+", appropriate wire gauge must be used for keeping the wiring loss within the limits in compliance with IS/IEC standard)			
Wire Gauge for I/P Grid & UPS/INV	6mm ²	8mm ²	10mm ²	10mm ²

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SOLAR MANAGEMENT UNIT

(Solar Conversion Kit)

The microcontroller senses the battery's full charge voltage and cuts off the battery from charging when it reaches full charge status. It reconnects the battery if the battery charge drops to a preset level. It disconnects the solar panel from the battery to avoid reverse current flow from the battery to the panel during the night. It gives first priority to solar while charging. The charger has been programmed to connect and disconnect the AC mains to the external battery UPS/inverter depending upon the battery voltage level, ensuring the use of solar as the primary power and mains only for emergencies.



USER FRIENDLY LED DISPLAY



High-efficiency PWM Charging:
Ensures more battery life and improved solar system performance.

High efficiency:
Zero drop SMU with >99% efficiency.

Protection:
In-built short circuit, reverse current, and polarity protection; no risk of electric shocks.

Battery compatibility:
Compatible with all types of batteries: SMF/Flat Plate and Tubular.

Technical Specifications

MODEL NO.	MTK 1012 SMU	MTK 3012 SMU	MTK 3024 SMU	MTK 6012 SMU	MTK 6024 SMU
Max. Solar Open circuit voltage (VOC)	22V	25V	40V	25V	40V
Max. solar Panel Capacity	120Wp	360Wp	720Wp	720Wp	1440Wp
Max. Battery charging current	10A	30A	30A	60A	60A
Peak Charger efficiency	99%	99%	99%	99%	99%
System Voltage (V)	12VDC	12VDC	24VDC	12VDC	24VDC
Battery Full Voltage (Solar Charging)	14.5± 0.2V	14.5± 0.2V	29.0± 0.4V	14.5± 0.2V	29.0± 0.4V
Battery Voltage (Mains disconnect)	14.0± 0.2V	14.0± 0.2V	28.0± 0.4V	14.0± 0.2V	28.0± 0.4V
Battery Voltage (Mains reconnect)	11.5± 0.2V	11.5± 0.2V	23.0± 0.4V	11.5± 0.2V	23.0± 0.4V
Recommended Battery Capacity	150AH & Above	1x200AH	2x200AH	1x400AH	2x400AH
LED Indications	Solar charging, Panel, Reverse, Battery Reverse, Output ON				
Connections	Terminal Block: for solar panel & Battery Connections Mains In: 1mm ² Power cord with 16A Molded plug. Mains Out: 15A Power outlet				
Front Panel Switch	Normal : Default position, Solar charging & mains control BYPASS : Solar Charging & Mains Bypass				

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SOLAR BATTERY

The Microtek Solar battery is meticulously crafted with a C10 rating, ensuring optimal performance and longevity with its AMP technology. Manufactured with a low antimony alloy, it demands minimal maintenance. With its high efficiency, durability, and eco-friendliness, it stands out in the market. Its wide operating temperature range enables it to thrive even in the most extreme climatic conditions, making it a top choice for sustainable energy solutions.

AMP | ADVANCED MICRO PARTICLES FOR LONGER LIFE



High-efficiency
High efficiency refers to its ability to effectively store and release energy with minimal loss, maximizing the utilization of solar power.



Durable
Durability implies long-lasting resilience against environmental factors and prolonged use without compromising performance.



Ultra low maintenance
Ultra-low maintenance denotes minimal need for upkeep or intervention, ensuring hassle-free operation over an extended period.



Eco-friendly
Eco-friendly solar battery signifies a sustainable energy solution with minimal environmental impact throughout its lifecycle.

Technical Specifications

Microtek Model Name	Claimed Capacity @ C10 (Ah)	Claimed Capacity @ C20 (Ah)	Container Type	Total Warranty (Months)	Dimensions (mm) ± 3.0mm			Weight (kg) (±5%)	Terminal Type
					Length	Width	Height up to terminal		
MTKSB04036	40	45	N100	36	407	176	250	23	HPDC-01
MTKSB04060	40	45	N100	60	407	176	250	24.5	HPDC-01
MTKSB07536	75	85	JT	36	532	221	284	38.5	HPDC-01
MTKSB07560	75	85	JT	60	532	221	284	40	HPDC-01
MTKSB10036	100	114	JT	36	532	221	284	40.5	HPDC-01
MTKSB10060	100	114	TT	60	508	190	412	53.5	HPDC-01
MTKSB12036	120	136	JT	36	520	279	283	53.5	HPDC-01
MTKSB12060	120	136	TT	60	508	190	412	55.5	HPDC-01
MTKSB15036	150	170	TT	36	508	190	412	59.5	HPDC-01
MTKSB15060	150	170	TT	60	508	190	412	60.5	HPDC-01
MTKSB20036	200	220	TT	36	508	190	412	65.5	HPDC-01
MTKSB20060	200	220	TT	60	508	190	412	68.2	HPDC-01

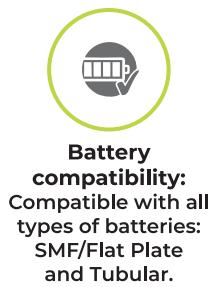
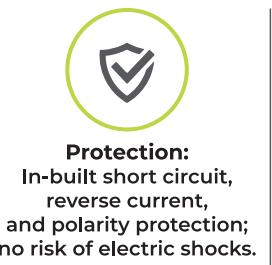
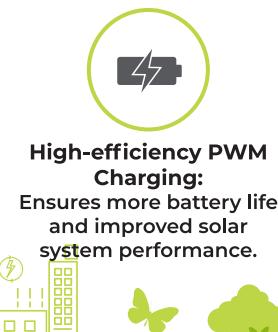
SOLAR CHARGE CONTROLLER

Microtek's microcontroller-based high-efficiency SSC (Solar Charge Controller) is best suited for low-power solar applications. It also includes a microcontroller to connect the DC load and has a USB port for mobile charging.



Technical Specifications

MODEL	SCC 12V/06A		SCC 12V/10A			
Wire Guage for battery PV input and Load	2.5 Sq.mm					
Recommended Minimum Battery Capacity	30AH to 150AH		50AH to 150AH			
LED INDICATIONS						
PV Reverse (Red)	LED continuously on when PV connection is reverse else LED remains in off mode.					
Bulk/Boost (Green)	LED blinks during charging LED continuously on when battery gets fully charged					
Battery Hi/Low (Red)	LED continuously on when battery is low LED blinks when battery is high					
Overload / Short (Red)	LED continuously on when battery is low LED blinks if any short circuit					
PV Abnormal (Red)	LED continuously on when PV voltage goes high LED blinks when PV current goes High					
Max. solar open circuit voltage (VOC)	25V		25V			
Max. solar panel capacity (In parallel)	100Wp		2x100Wp (In Parallel)			
Max. Battery Charging current	6A		10A			
Peak charger efficiency	>97%		>97%			
Battery voltage (V)	12VDC		12VDC			
On board Battery Type Selection and Battery full voltage (solar charging)	JP1A	JP2A	Battery Type	Boost Level		
	Open	Open	Tubular	14.6± 0.3V		
	Open	Short	SMF	14.4± 0.3V		
	Short	Open	Flat	14.2± 0.3V		
	Short	Short	Other	14.8± 0.3V		
Protections	Reverse battery, Reverse PV, Reverse current from battery to PV over PV current, Battery high Voltage, over PV voltage, High PV inrush current, Load over current Protection					
USB port for mobile charging	Provided					
Restart after over current and short circuit Protection	After 3 Minutes					
Operating Temperature Range	0~40°C					
Relative Humidity	0~95% Non Condensing					
Audible noise (Full load)	<60 dB					
Enclosure Protection	IP21					



SMART ZERO EXPORT & POWER MANAGEMENT SOLUTION

Smart Zero Export solution is available for the entire range of Microtek Grid Tie Inverters.



No net metering:
Zero Export Devices are essential for limiting power export to the grid in areas without net metering.



No export power to DG set:
The DG-PV Synchronising Control Panel is essential for safeguarding your DG Set by preventing any power backflow.

INPUTS REQUIRED FROM END CUSTOMER/DEALER/SYSTEM INTEGRATORS FOR ZERO EXPORT

SYSTEM CONFIGURATION OF THE PLANT (SOLAR DC CAPACITY)

INCOMING CABLE SIZE FROM NET METER/TRANSFORMER TO CUSTOMER'S LT PANEL

EXISTING CT RATING AND ITS RATIO

CONNECTED LOAD OF THE SITE

DISTANCE FROM INVERTER TO METER

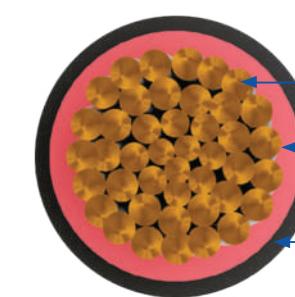
ELECTRICAL SLD OF PLANT

SOLAR CABLE

Solar cables are intended for use in photovoltaic power supply systems and similar applications as free-hanging, movable fixed installations. These cables can be used indoors, outdoors, in industry, and in agriculture. They are suitable for applications in equipment with protective insulation.

Technical Specifications

Basic Code	Nominal area of conductor	Overall Diameter mm (Approx) As per Standard 2Pfg 1169	Tensile Strength when pulled with pulling eye	Current Carrying Capacity Amp			Max Conductor Resistance per KM at 20°C
				In Air Single Cable	On Surface Single Core	On Surface Two Cables Adjacent	
720-432-8	2.50	5.0	13	35	33	27	8.21
720-433-8	4.00	5.5	20	45	42	34	5.09
720-434-8	6.00	6.0	31	58	48	38	3.39
720-435-8	10.00	7.0	51	80	75	61	1.95
720-436-8	16.00	8.0	82	10	69	98	11.24
720-437-8	25.00	10.5	131	140	131	106	0.795



Flexible tinned copper stranded class - 5 Conductors as per IEC - 60228
Insulation - Cross linked XLPE, Natural Color
Outer sheath - UV Resistance PVC ST2 Compund Black Color

