



MELIN-SUNERGY

Take green energy by your side

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**MELIN SUNERGY
START THE
SUSTAINABLE GREEN
ENERGY HERE**

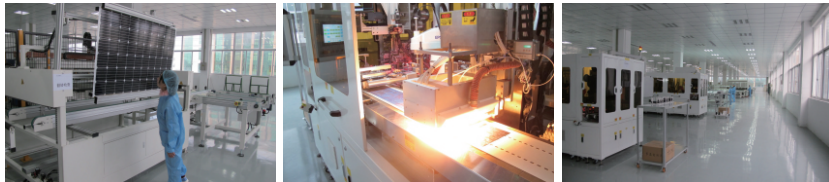




ABOUT Melin Sunergy

Melin Sunergy Co.,Ltd. Was found in 2009 , which is specialized in developing ,producing and selling solar products in China for more than 10 Years time . Our company's capital office is located in Shenzhen , China ,which is very near to Hongkong . With 2 production base in Zhejiang and Guangdong Province for solar panel products and solar electric products.

We have our own R&D team in Shenzhen for solar electric products such like mobile solar generator , solar charge controller ,all in one solar motion sensor light etc.. ,With more than 200 workers in total in both of the factories working strictly under ISO9001 producing and quality control system ,and for solar panel products are all produced in Zhejiang Province in clean ,Non-dusty factory , with Automatic production line , with total capacity 150MW per year , during the production process with 5 times on line inspection such like solar cell testing , X-Ray Inspection , EL Testing etc..



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MPPT SOLAR CHARGE CONTROLLER

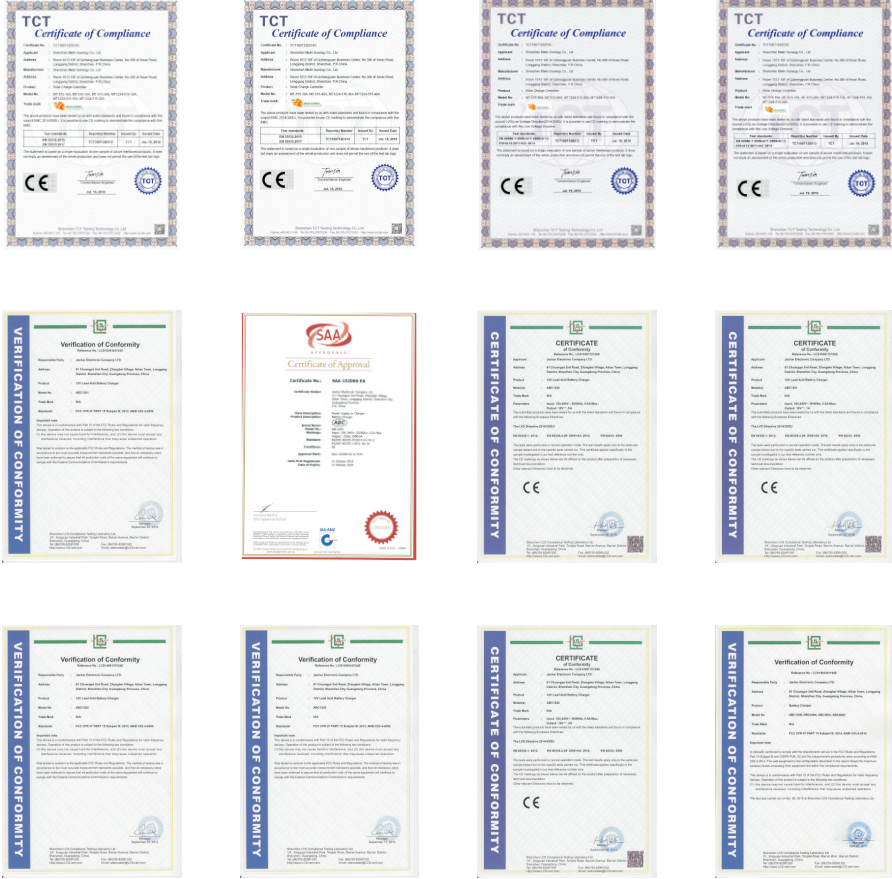
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PORTABLE GENERATOR

MT203 Portable Camping Generator

- Pure Sine Wave Inverter
- Lithium ion battery pack
- AC ,Solar and Car Battery Charging Input
- Built in LED Lamps X 2 PCS
- Output : AC X 2 PCS / 1PC , USB X 3PCS , DC 12V X 3 PCS

Technical Data Sheet	
Item	MT203
Size/ Weight	190 X127X175mm /2.0Kgs
Max. Loading	200W
Battery	192Wh /Lithium ion
Working Time	Smart phone (8~15Wh) : 22 times Tablet(5~42Wh) : 7 times Laptop (50Wh) : 3 times Car Refrigerator (30~60W) : 3~6 hours



MT216 Portable UPS Generator

- Pure Sine Wave Inverter /UPS Function
- Built in LED Lamp
- Lithium ion battery power pack
- AC & Solar Input Charging
- Output : AC X 2 PCS , USB X 2PCS ,DC12V X 1PC

Technical Data Sheet		
Item	MT216S	MT216B
Battery size	288.6Wh(11.1V/26Ah)	466.2Wh(11.1V/42Ah)
AC Charging Time	3~4 Hours	6~7 hours
Size / Weight	340X185X60mm / 3.2Kgs /3.7Kgs	
Max.Continuously loading	300Watt	



PORTABLE GENERATOR

MT217 Portable UPS Generator

- Pure Sine Wave Inverter
- UPS Function
- Lithium ion battery power pack
- AC & Solar Input Charging
- Output : AC X 2 PCS , USB X 2PCS ,DC12V X 1PC

Technical Data Sheet	
Item	MT217
Size/ Weight	330 X78X265mm 7.5Kgs
Max.Continuously Loading	300W
Battery	865.8Wh (11.1V/78Ah)
AC Charging Time	9~10 Hours



MT210 Portable Generator

- Pure Sine Wave Inverter
- Lithium ion battery Power pack
- LED Lamp built in
- AC , Solar Charging input
- Output : AC , DC12V , USB 5V

Technical Data Sheet		
Item	MT210S	MT210B
Battery size	1077.44Wh (25.9V/41.6Ah)	1367.52Wh (25.9V/52.8Ah)
AC Charging Time	5~6 Hours	7~8 hours
Size / Weight	345X246X172mm /8.0 Kgs /8.9Kgs	
Max.Continuously loading	1000W	



PORTABLE GENERATOR

MT212 Portable Generator

- Pure Sine Wave Inverter
- Lithium ion battery Power pack
- AC , Solar Charging input
- Output : AC , DC12V , USB 5V
- Optional Trolley

Technical Data Sheet		
Item	MT212S	MT212B
Battery size	1885.52Wh (25.9V/72.8Ah)	2693.6Wh (25.9V/104Ah)
AC Charging Time	5~6 Hours	7~8 hours
Size / Weight	410X250X270mm /21Kgs /28Kgs	
Max.Continuously loading	2000W	



MT218 Portable Generator

- Pure Sine Wave Inverter
- Lithium ion battery Power pack
- AC , Solar Charging input
- Output : AC , DC12V , USB 5V

Technical Data Sheet	
Item	MT218
Size/ Weight	340 X175X250mm 11.45Kgs
Max. Loading	1500W
Battery	1346.8Wh (25.9V/52Ah)
AC Charging Time	5~6 Hours
Working Time	Smart phone (8~10Wh) : 169 times Tablet(16~25Wh) : 80 times Laptop (50Wh) : 26 times Car Refrigerator (30~60W) : 21~43 hours



PORTABLE GENERATOR

MT220 Portable Generator

- Pure Sine Wave Inverter
- Suitcase design with Trolley
- Large Lithium ion battery power pack
- AC and Solar Charging Input
- Output : AC , DC12V ,DC48V

Technical Data Sheet		
Item	MT220S	MT220B
Battery size	2962.96Wh (51.8V/57.2Ah)	5656.56Wh (51.8V/109.2Ah)
AC Charging Time	5~6 Hours(10A)	7~8 hours(15A)
Size / Weight	560X450X200mm /30.0 Kgs /43Kgs	
Max.Continuously loading	2000W at 220V AC output ,1400W at 110V AC output	



Wide Application

2000W, 220V, DC 12V 10A, 48V50A

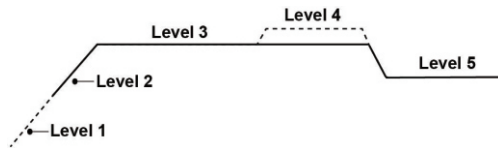
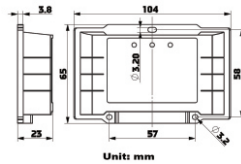


PWM SOLAR CHARGE CONTROLLER

MT504 8A, 12A, 15A Water Proof Solar Charge Controller

- PWM Controller
- Target for AGM ,GEL,CALCIUM & WET Lead acid battery
- 5 Stage Charging Technology *
- LED Indicator
- Weather Proof with sealed glue on backside

* 5 Stage Charging diagram



Soft Charge (Level 1) –Bulk Charge (Level 2)-Absorption charge (Level 3) – Equalizing Charge* (Level 4) - Float Mode (Level 5)

Technical Data Sheet			
Model No.:	MT-505-8A	MT-505-12A	MT-505-15A
Rated Current	8A	12A	15A
Target Battery	AGM, GEL ,WET, CALCIUM		
Size	104*65*23mm		
System Voltage	12V		
Weight	200g		

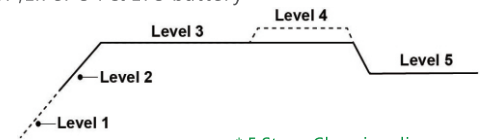


PWM SOLAR CHARGE CONTROLLER

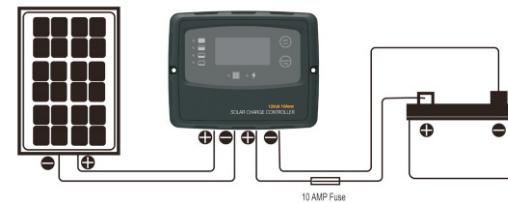
MT515 10A, 15A, 20A Digital Solar Charge Controller

- PWM Controller
- Target for AGM ,GEL,CALCIUM ,WET ,LiFePO4 & LTO battery
- 5 Stage Charging Technology *
- LED + LED Display
- Temperature Compensation
- Optional Water proof type

* 5 Stage Charging diagram



Soft Charge (Level 1) –Bulk Charge (Level 2)-Absorption charge (Level 3) – Equalizing Charge* (Level 4) - Float Mode (Level 5)



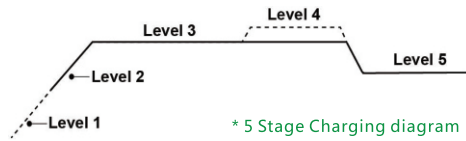
General Specification			
Model No.:	MT515-10A	MT515-15A	MT515-20A
Rated Current	10A	15A	20A
Size	102X130X27mm		
Target Battery	AGM ,GEL ,WET, CALCIUM ,LiFePO4 ,LTO		
System Voltage	12V or 12V/24V Auto		
Weight	250g		



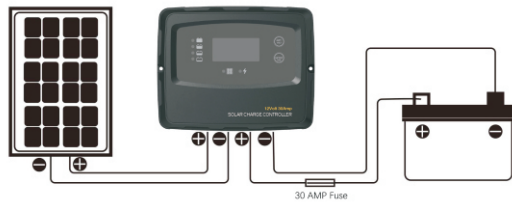
PWM SOLAR CHARGE CONTROLLER

MT515 30A,40A Digital Solar Charge Controller

- PWM Controller
- Target for AGM ,GEL,CALCIUM ,WET,LiFePO4 & LTO battery
- 5 Stage Charging Technology *
- LED + LED Display
- Temperature Compensation
- Optional USB output model
- Optional Remote Display
- Flush Mounting design



Soft Charge (Level 1) –Bulk Charge (Level 2)–Absorption charge (Level 3) – Equalizing Charge* (Level 4) - Float Mode (Level 5)



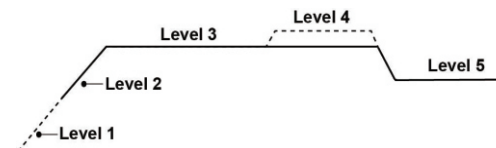
General Specification		
Model No.:	MT515-30A	MT515-40A
Rated Current	30A	40A
Size	156X122X38mm	
System Voltage	12V or 12V/24V Auto	
Weight	300g	



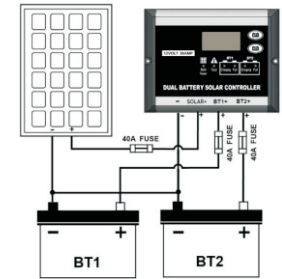
PWM SOLAR CHARGE CONTROLLER

MT-505-30AD Dual Battery Solar Charge Controller

- PWM Controller
- Target for AGM ,GEL,CALCIUM ,WET,LiFePO4 & LTO battery
- 5 Stage Charging Technology *
- Charging 2 battery at same time
- Temperature Compensation
- Optional Remote Display
- Flush Mounting design
- * 5 Stage Charging diagram



Soft Charge (Level 1) –Bulk Charge (Level 2)–Absorption charge (Level 3) – Equalizing Charge* (Level 4) - Float Mode (Level 5)



General Specification	
Model No.:	MT-505-30AD
Size	156X120X38MM
System Voltage	12V
Weight	0.3Kg

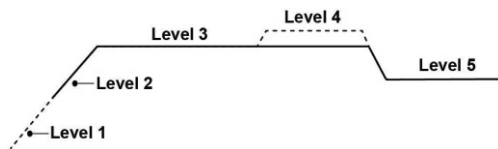


PWM SOLAR CHARGE CONTROLLER

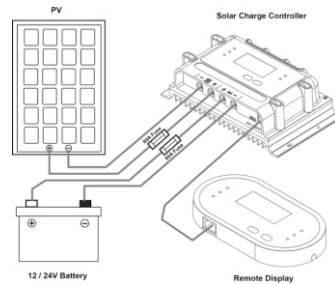
MPPT SOLAR CHARGE CONTROLLER FOR RV

- PWM Controller
- Target for AGM ,GEL,CALCIUM ,WET,LiFePO4 & LTO battery
- 5 Stage Charging Technology *
- 12V/24V Auto Work
- LED + LCD Display
- Temperature Compensation
- Optional Remote Display

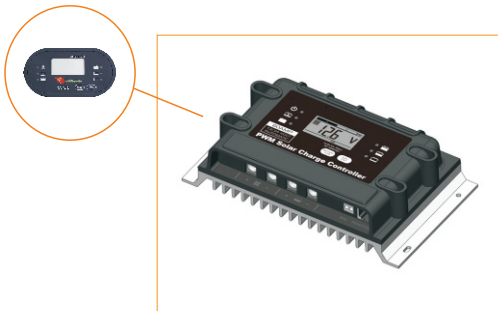
* 5 Stage Charging diagram



Soft Charge (Level 1) – Bulk Charge (Level 2)– Absorption charge (Level 3) – Equalizing Charge* (Level 4) - Float Mode (Level 5)



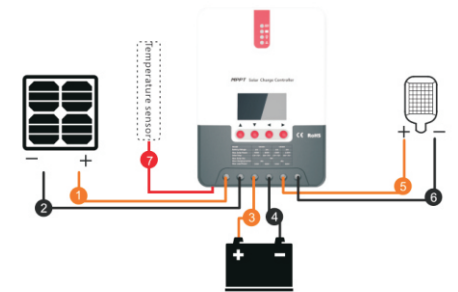
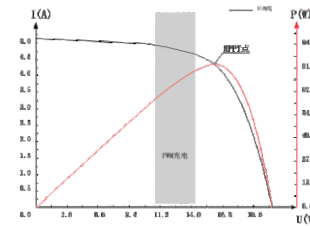
Technical Data Sheet			
Model No.:	MT-504-8A	MT-504-12A	MT-504-15A
Rated Current	8A	12A	15A
Target Battery	AGM, GEL, WET, CALCIUM		
Size	104*65*23mm		
System Voltage	12V		
Weight	200g		



MPPT SOLAR CHARGE CONTROLLER

MPPT SOLAR CHARGE CONTROLLER ML SERIES

- Maximum Power Point Tracking (MPPT) Technology
- MPPT Tracking Efficiency >99%
- Suit for system from 12V to 48V
- LED + LCD Display
- 4 Stage Charging Technology
- Temperature Compensation Function



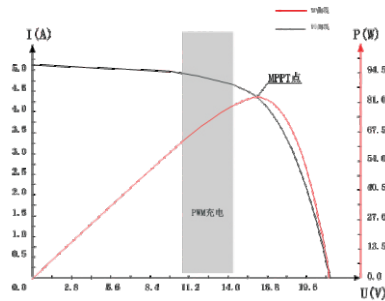
Parameter	Value				
	MT2420	MT2430	MT2440	MT4830	MT4860
Model	MT2420	MT2430	MT2440	MT4830	MT4860
System Voltage	12V/24V Auto			12V/24V/36V/48V/ Auto	
Battery Voltage	9-35V			9-70V	
Max.Solar Input Voltage	100V(25°C)/90V(-25°C)			150V(25°C)/145V(-25°C)	
Rated Charging CurrentTR	20A	30A	40A	30A	60A
Max.PV Input Power	260W/12V 520W/24V	400W/12V 800W/24V	550W/12V 1100W/24V	400W/12V 800W/24V 1200W/36V 1600W/48V	800W/12V 1600W/24V 2400W/36V 3200W/48V
Conversion efficiency	≤98%				
MPPT tracking efficiency	> 99%				
Temperature compensation factor	-3mv/°C/2V(default)				
Operating temperature	-35°C to +45°C				
Weight	1.4Kg	2.0Kg	2.0Kg	2.3Kg	3.6Kg
Product dimensions	210*152*59.5 mm	238*173*72.5 mm	238*173*72.5 mm	266*182*81 mm	285*205*93 mm



MPPT SOLAR CHARGE CONTROLLER

MPPT SOLAR CHARGE CONTROLLER FOR RV

- Maximum Power Point Tracking (MPPT) Technology
- MPPT Tracking Efficiency > 99%
- Suit for system from 12V & 24V
- LED Indicator ,optional Bluetooth emitter for APP connection and LCD remote display
- 4 Stage Charging Technology
- Temperature Compensation Function
- Common in negative design
- 3 Years Warranty



Parameter	Value			
Model	MC2420	MC2430	MC2440	MC2450
System Voltage	12V/24V Auto			
Battery Voltage	9-32V			
Max.Solar Input Voltage	92V(25°C);100V(Lowest ambient temperature)			
Rated Charging CurrentRR	20A	30A	40A	50A
Max.PV Input Power	260W/12V 520W/24V	400W/12V 800W/24V	550W/12V 1100W/24V	660W/12V 1320W/24V
Conversion efficiency	≤98%			
MPPT tracking efficiency	> 99%			
Temperature compensation factor	-3mv/°C/2V (default), Lithium battery features no temperature compensation			
Operating temperature	-35°C to +45°C			
Weight	600g	700g	800g	900g
Product dimensions	150*105.6*61.5 mm	150*105.6*67.5 mm	183*127*65.5 mm	183*127*69.5 mm



05

SMART BATTERY CHARGER

6V & 12V 1000mA Smart Battery Charger

- 5 Stage Charging Technology
- Suits for both 6V & 12V battery
- CE ,FCC ,SAA Approval
- 2 Years Warranty

Model No.:	ABC1201
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	6V & 12V
Output Current	1000mA
Suits Battery Size	6V&12V ,3~40AH
Size/Weight	149X71X32mm/0.55Kg



12V 2000mA Smart Battery Charger

- 7 Stage Charging Technology
- Suits for GEL ,lead acid battery
- CE ,FCC ,C-TICK Approval
- 2 Years Warranty

Model No.:	ABC1202
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	12V
Output Current	2000mA
Suits Battery Size	12V ,6~100AH
Size/Weight	149X71X32mm/0.6Kg



SMART BATTERY CHARGER

12V 2A/5A Smart Battery Charger

- 7 Stage Charging Technology
- With Winter Mode
- CE ,FCC Approval
- 2 Years Warranty

Model No.:	ABC1205
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	12V
Output Current	2A/5A
Suits Battery Size	12V ,6~150AH
Size/Weight	204X92X54mm/0.85Kg



12V 2A/4A/8A Smart Battery Charger

- 7 Stage Charging Technology
- Suits for AGM ,GEL ,WET ,lead acid battery
- Temperature Compensation function
- CE ,FCC ,SAA Approval
- 2 Years Warranty

Model No.:	ABC1208
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	12V
Output Current	2A/4A/8A
Suits Battery Size	12V ,6~200AH
Size/Weight	204X92X54mm/0.85Kg



SMART BATTERY CHARGER

24V 1A/2A/4A Smart Battery Charger

- 7 Stage Charging Technology
- Suits for AGM ,GEL ,WET ,lead acid battery
- Temperature Compensation function
- CE ,FCC ,SAA Approval
- 2 Years Warranty

Model No.:	ABC2404
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	24V
Output Current	1A/2A/4A
Suits Battery Size	24V ,3~100AH
Size/Weight	204X92X54mm/0.85Kg



12V 2A/10A/20A Smart Battery Charger

- 7 Stage Charging Technology
- Suits for AGM ,GEL ,WET ,lead acid battery
- Temperature Compensation function
- CE ,FCC ,SAA Approval
- 2 Years Warranty

Model No.:	ABC1220
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	12V
Output Current	2A/10A/20A
Suits Battery Size	12V ,6~400AH
Size/Weight	220X115X63mm/1.15Kg



SMART BATTERY CHARGER

12V 2A/15A/30A Smart Battery Charger

- 7 Stage Charging Technology
- Suits for AGM , GEL , WET , lead acid battery or LiFePO4 battery
- 2A/15A/30A Switchable charging current
- CE ,FCC ,SAA Compliance
- 2 Years Warranty

Model No.:	ABC1230
AC Input Voltage	100~240V AC/50-60HZ
Output Voltage	12V
Output Current	2A/15A/30A
Suits Battery Size	12V ,6~600AH
Size/Weight	220X115X63mm/1.3Kg



LCD Battery Monitor

- Large LCD Display
- Suits for 12V Battery
- Display for for both charging and discharging time for the battery
- 2 Years Warranty

Model No.:	BMS
Input Voltage	8~16V DC
Input current (back light is OFF)	<2mA
Operating temperature	0~40°C
Size	125 X 68 X 20 mm



SOLAR PANEL

MT-105M Mono ,105P Poly Off Grid Solar Panel

- High efficiency Mono / Poly crystalline solar cell
- 10 Years Manufacturer warranty
- 25 Years output warranty
- Customized panel size



TYPE	Module Size (mm)	N.W.(Kg)	Specification				
			Pmax(W)	Vmax(V)	Imax(A)	Voc(V)	Isc(A)
5W	290*180*17	0.9	5	18.00	0.28	21.5	0.43
10W	355*290*17	1.6	10	17.00	0.59	21.50	0.62
20W	480*350*25	2.0	20	18.00	1.11	22.50	1.36
30W	350*660*25	2.9	30	18.00	1.67	22.5	1.98
40W	510*540*25	3.7	40	18.20	2.20	22.20	2.40
55W	580*660*30	4.5	55	18.00	3.06	22.50	3.31
60W	625*660*30	5.3	60	18.00	3.33	22.5	3.72
80W	805*660*30	6.0	80	18.00	4.44	22.50	4.69
100W	1190*540*30	7.7	100	18.00	5.56	22.50	5.81
120W	1185*660*30	9.5	120	18.00	6.67	22.5	7.02
130W	1300*660*30	10.2	130	18.00	7.22	22.50	7.47
150W	1470*660*35	11.6	150	18.00	8.33	22.50	8.58
160W	1470*660*35	11.6	160	18.00	8.89	22.50	9.10

*All Data under standard testing condition (STC) :1000W/m²,AM1.5 25°C

PORTABLE SOLAR PANEL KIT

MT-105F Solar Folding Panel Kit

- High Efficiency Solar Panel
- Integrated with solar controller ,stand leg ,hand bag
- Digital Solar Charge Controller to prolong the battery life
- Easy using and take to any place

Model No.:	Size	Charging Current	Weight
MT-105F-100W	798X360X70mm	5.26A	7.6Kg
MT-105F-120W	492X676X70mm	6.32A	9.0Kg
MT-105F-140W	540X676X70mm	7.37A	9.5Kg
MT-105F-180W	780X676X70mm	9.42A	12.5Kg
MT-105F-200W	950X676X70mm	10.7A	15.0Kg



PORTABLE SOLAR PANEL KIT

MTF Fabric Folding Panel

- A Light weight Solar Power Charger for 12V battery
- Small size folding design, convenient for carrying
- High Efficiency Mono Crystalline solar cell
- Optional with Digital PWM Solar Charge Controller

Item	Solar Panel	Charging Current	Weight	Optional Controller
MTF120	120W	6A	3.0Kg	10A or 15A/12V
MTF160	160W	8A	3.8Kg	LCD Display
MTF200	200W	10A	4.9Kg	Controller

