High frequency charger expert

For Lithium Battery and Lead-Acid Battery
Picture and size of product may vary due to different market

TD-SMC-450W-Serries

MODEL		TD-SMC-450W-12	TD-SMC-450W-24	TD-SMC-450W-48	TD-SMC-450W-72
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V	72V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V	69V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V	54 ~ 100V
	MAX. OUTPUT CURRENT (CC) Note.4	25A	13.5A	6.8A	5.5A
	MAX. POWER Note.4	420W	453.6W	456.96W	462W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	90 ~ 300AH	45 ~ 155AH	24 ~ 80AH	19 ~ 64AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA			
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load			
	EFFICIENCY (Typ.) Note.7	92%	93%	93%	93%
	AC CURRENT (Typ.)	4.5A/115VAC 2.2A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC			
	LEAKAGE CURRENT	<0.75mA/240VAC			
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover			
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V	102 ~ 120V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover			
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed			
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down			
FUNCTION	Configure parameters via the LCD display	**Set voltage and current , Set the full charge capacity for the battery , Communicate with the PC**			
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
OTHER	MTBF	273.7K hrs min. Telcordia SR-332(Bellcore) ; 83.4K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	As Design			
	PACKING	1.02Kg; 8pcs/10Kg/1.71CUFT			

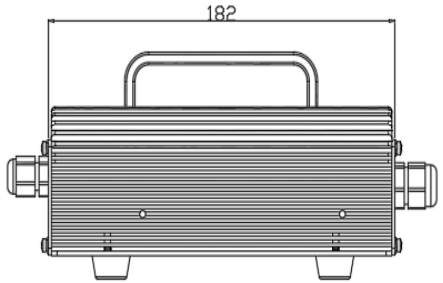
TD-SMC-900W-Serries

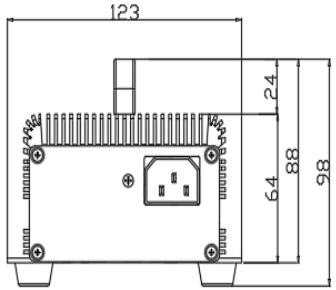
MODEL		TD-SMC-900W-12	TD-SMC-900W-24	TD-SMC-900W-48
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	43A	22.5A	11.3A
	MAX. POWER Note.4	722.4W	756W	759.36W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	150 ~ 500AH	80 ~ 260AH	40 ~ 130AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	93%
	AC CURRENT (Typ.)	8.7A/115VAC 4A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	Configure parameters via the LCD display	Set voltage and current , Set the full charge capacity for the battery , Communicate with the PC		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	227.6K hrs min. Telcordia SR-332(Bellcore) ; 67.7K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	1.84Kg; 4pcs/9Kg/1.63CUFT		

TD-SMC-1200W-Serries

MODEL		TD-SMC-1200W-12	TD-SMC-1200W-24	TD-SMC-1200W-48
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	70A	36A	18A
	MAX. POWER Note.4	1176W	1209.6W	1209.6W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	240 ~ 800AH	120 ~ 420AH	60 ~ 210AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	94%
	AC CURRENT (Typ.)	12A/115VAC 6.5A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	Configure parameters via the LCD display	**Set voltage and current , Set the full charge capacity for the battery , Communicate with the PC**		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	172.5K hrs min. Telcordia SR-332(Bellcore) ; 47.5K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	1.93Kg; 4pcs/10Kg/1.72CUFT		

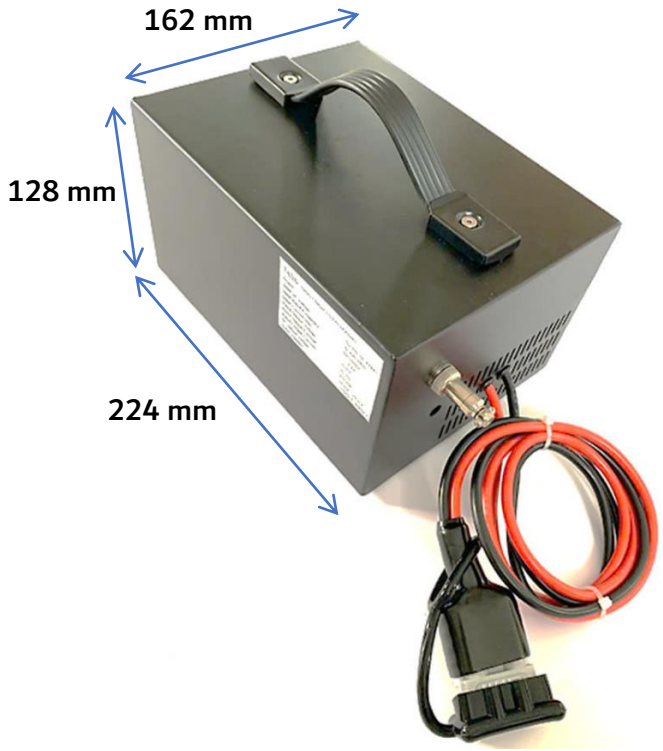
300W-A Series





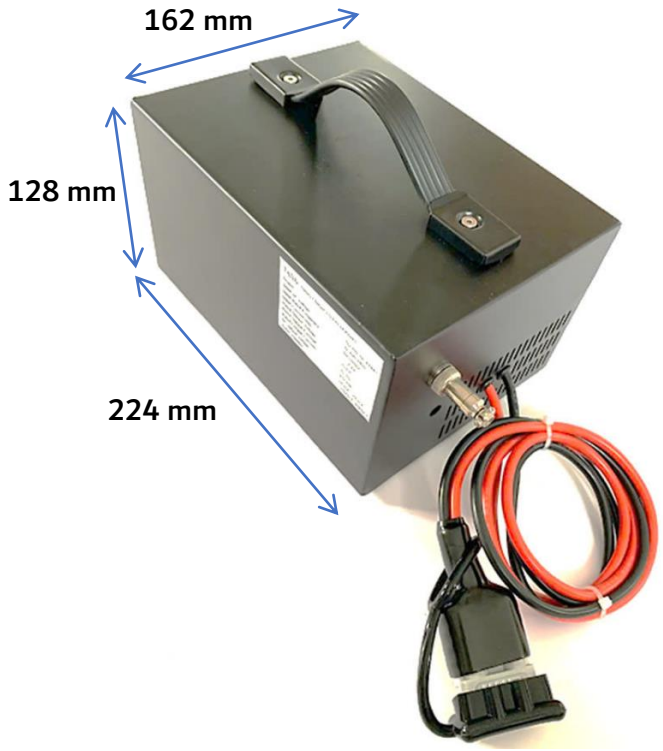
300W-A	Model	12V15A	12V25A	24V8A	24V10A	24V15A	48V5A
INPUT	AC Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	AC Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Current(Max)	<=2.4A	<=4A	<=2.6A	<=3.2A	<=5A	<=3.2A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	<=240W	<=400W	<=256W	<=320W	<=480W	<=320W
	AC Plug	L+N+PE	L+N+PE	L+N+PE	L+N+PE	L+N+PE	L+N+PE
OUTPUT	Conversion efficiency	≥ 0.90	≥ 0.90	≥ 0.90	≥ 0.90	≥ 0.90	≥ 0.90
	Rated output voltage	14.4V	14.4V	28.8V	28.8V	28.8V	57.6V
	Rated output current	15A	25A	8A	10A	15A	5A
	Rated output power	216W	360W	230W	288W	432W	288W
	DC output voltage	6Vdc～16Vdc	6Vdc～16Vdc	10Vdc～32Vdc	10Vdc～32Vdc	10Vdc～32Vdc	10Vdc～60Vdc
	Output plug	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50
COMM	CAN-BUS	Optional	Optional	Optional	Optional	N/A	Optional
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	182X123X98(mm)	182X123X98(mm)	182X123X98(mm)	182X123X98(mm)	182X123X98(mm)	182X123X98(mm)
	Weight	1.5KG	1.5KG	1.5KG	1.5KG	1.5KG	1.5KG
	Cooling mode	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP65	IP55	IP65	IP65	IP55	IP55
	IP Rating (Optional)	N/A	N/A	N/A	N/A	N/A	N/A
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m

TD- 450 - RS485 Serries



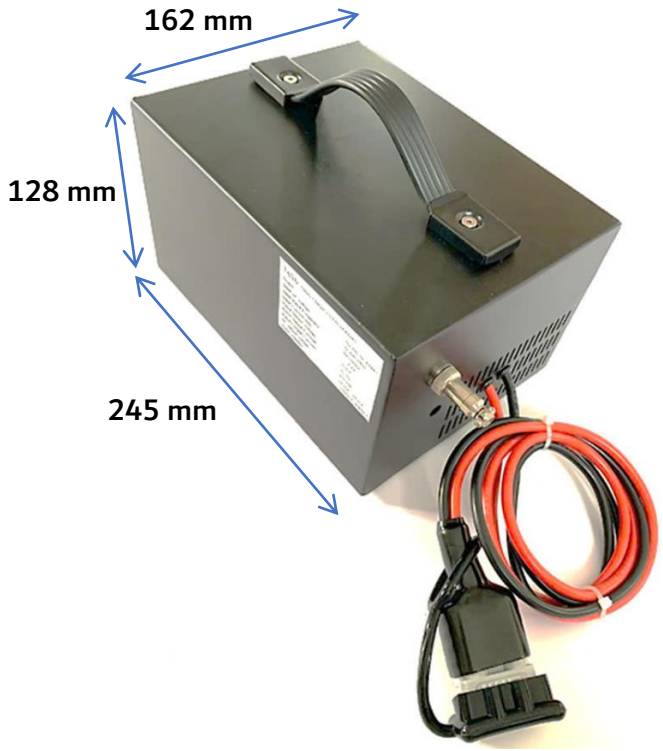
MODEL		TD-450-12-RS485	TD-450-24-RS485	TD-450-48-RS485	TD-450-72-RS485
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V	72V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V	69V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V	54 ~ 100V
	MAX. OUTPUT CURRENT (CC) Note.4	25A	13.5A	6.8A	5.5A
	MAX. POWER Note.4	420W	453.6W	456.96W	462W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	90 ~ 300AH	45 ~ 155AH	24 ~ 80AH	19 ~ 64AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA			
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load			
	EFFICIENCY (Typ.) Note.7	92%	93%	93%	93%
	AC CURRENT (Typ.)	4.5A/115VAC 2.2A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC			
	LEAKAGE CURRENT	<0.75mA/240VAC			
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover			
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V	102 ~ 120V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover			
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed			
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down			
FUNCTION	CHARGING CURVE	2 or 3 stage selectable through DIP S.W on panel, or SBP-001 with computer			
	CHARGING PARAMETERS PROGRAMMABLE	No			
		Manual setting: No			
	AUTO RANGING CHARGING CURVE (Typ.)	Please refer to functin manual for more detail (page 8)			
		Charging current adjustable 50~100% by via potentiometer on panel (Only for auto ranging mode)			
	RS485	RS485 communication			
	CHARGER OK	The TTL signal out, Charger OK = H(4.5 ~ 5.5V) ; Charger failure or protection status =L(-0.5 ~ +0.5V)			
	BATTERY FULL SIGNAL	The TTL signal out, Battery full = H(4.5 ~ 5.5V); Charging = L(-0.5 ~ +0.5V)			
	REMOTE CONTROL	Short : Charger normal work Open : Charger stop charging			
	TEMPERATURE COMPENSATION	By external NTC			
	FAN SPEED CONTROL	Depends on internal temperature			
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
OTHER	MTBF	273.7K hrs min. Telcordia SR-332(Bellcore) ; 83.4K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	As Design			
	PACKING	1.02Kg; 8pcs/10Kg/1.71CUFT			

TD- 450 - RS485-SS Serries



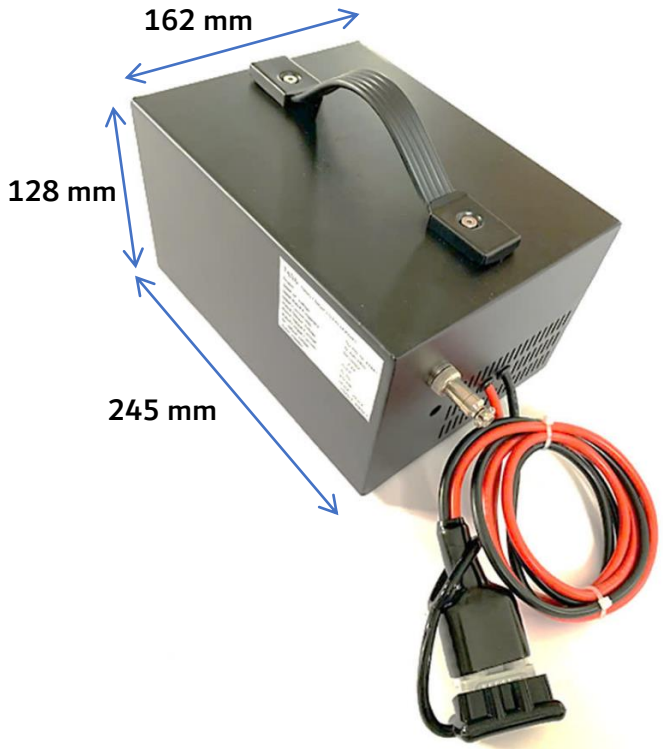
MODEL		TD-450-12-RS485	TD-450-24-RS485	TD-450-48-RS485	TD-450-72-RS485
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V	72V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V	69V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V	54 ~ 100V
	MAX. OUTPUT CURRENT (CC) Note.4	25A	13.5A	6.8A	5.5A
	MAX. POWER Note.4	420W	453.6W	456.96W	462W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	90 ~ 300AH	45 ~ 155AH	24 ~ 80AH	19 ~ 64AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA			
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load			
	EFFICIENCY (Typ.) Note.7	92%	93%	93%	93%
	AC CURRENT (Typ.)	4.5A/115VAC 2.2A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC			
	LEAKAGE CURRENT	<0.75mA/240VAC			
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover			
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V	102 ~ 120V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover			
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed			
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down			
FUNCTION	CHARGING CURVE	2 or 3 stage selectable through DIP S.W on panel, or SBP-001 with computer			
	CHARGING PARAMETERS PROGRAMMABLE	No			
		Manual setting: No			
	AUTO RANGING CHARGING CURVE (Typ.)	Please refer to functin manual for more detail (page 8)			
		Charging current adjustable 50~100% by via potentiometer on panel (Only for auto ranging mode)			
	RS485	RS485 communication			
	CHARGER OK	The TTL signal out, Charger OK = H(4.5 ~ 5.5V) ; Charger failure or protection status =L(-0.5 ~ +0.5V)			
	BATTERY FULL SIGNAL	The TTL signal out, Battery full = H(4.5 ~ 5.5V); Charging = L(-0.5 ~ +0.5V)			
	REMOTE CONTROL	Short : Charger normal work Open : Charger stop charging			
	TEMPERATURE COMPENSATION	By external NTC			
	FAN SPEED CONTROL	Depends on internal temperature			
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
OTHER	MTBF	273.7K hrs min. Telcordia SR-332(Bellcore) ; 83.4K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	As Design			
	PACKING	1.02Kg; 8pcs/10Kg/1.71CUFT			

TD- 750 - RS485 Serries



MODEL		TD-750-12-RS485	TD-750-24-RS485	TD-750-48-RS485
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	43A	22.5A	11.3A
	MAX. POWER Note.4	722.4W	756W	759.36W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	150 ~ 500AH	80 ~ 260AH	40 ~ 130AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	93%
	AC CURRENT (Typ.)	8.7A/115VAC 4A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	CHARGING CURVE	2 or 3 stage selectable through DIP S.W on panel, or SBP-001 with computer		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	227.6K hrs min. Telcordia SR-332(Bellcore) ; 67.7K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	1.84Kg; 4pcs/9Kg/1.63CUFT		

TD-750-RS485–CHSET Serries



MODEL		TD-750-12-RS485-CHSET	TD-750-24-RS485-CHSET	TD-750-48-RS485-CHSET
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	43A	22.5A	11.3A
	MAX. POWER Note.4	722.4W	756W	759.36W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	150 ~ 500AH	80 ~ 260AH	40 ~ 130AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	93%
	AC CURRENT (Typ.)	8.7A/115VAC 4A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	CHARGING SET	Set up charging capacity manually		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	227.6K hrs min. Telcordia SR-332(Bellcore) ; 67.7K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	2.5Kg		

TD- 1200 – RS485 Serries

MODEL		TD-1200-12-RS485	TD-1200-24-RS485	TD-1200-48-RS485
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	70A	36A	18A
	MAX. POWER Note.4	1176W	1209.6W	1209.6W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	240 ~ 800AH	120 ~ 420AH	60 ~ 210AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	94%
	AC CURRENT (Typ.)	12A/115VAC 6.5A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	CHARGING CURVE	2 or 3 stage selectable through DIP S.W on panel, or SBP-001 with computer		
	CHARGING PARAMETERS PROGRAMMABLE	No		
		Manual setting: No		
	AUTO RANGING CHARGING CURVE (Typ.)	Please refer to functin manual for more detail (page 8)		
		Charging current adjustable 50~100% by via potentiometer on panel (Only for auto ranging mode)		
	CANBUS INTERFACE	CANBus 2.0B, Can control, Setting and monitoring(VO,IO,charging curve, internal temp. and DC output ON/OFF)		
	CHARGER OK	The TTL signal out, Charger OK = H(4.5 ~ 5.5V) ; Charger failure or protection status =L(-0.5 ~ +0.5V)		
	BATTERY FULL SIGNAL	The TTL signal out, Battery full = H(4.5 ~ 5.5V); Charging = L(-0.5 ~ +0.5V)		
	REMOTE CONTROL	Short : Charger normal work Open : Charger stop charging		
	TEMPERATURE COMPENSATION	By external NTC		
	FAN SPEED CONTROL	Depends on internal temperature		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	172.5K hrs min. Telcordia SR-332(Bellcore) ; 47.5K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	1.93Kg; 4pcs/10Kg/1.72CUFT		

TD- 1700 – RS485 Serries

MODEL		TD-1700-12-RS485	TD-1700-24-RS485	TD-1700-48-RS485
OUTPUT	BOOST CHARGE VOLTAGE (Vboost)(default)	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE (Vfloat)(default)	13.8V	27.6V	55.2V
	CHARGE VOLTAGE RANGE Note.3	10.5 ~ 21V	21 ~ 42V	42 ~ 80V
	MAX. OUTPUT CURRENT (CC) Note.4	85A	50A	25A
	MAX. POWER Note.4	1428W	1680W	1680W
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.5	300 ~ 1000AH	200 ~ 640AH	100 ~ 330AH
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.) Note.7	92%	93%	94%
	AC CURRENT (Typ.)	14.8A/115VAC 9.3A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A at 230VAC		
	LEAKAGE CURRENT	<0.75mA/240VAC(60335-1/2-29), <1.5mA Peak/240VAC(62368-1)		
PROTECTION	SHORT CIRCUIT Note.8	Protection type : Constant current limiting, charger will shutdown after 5 sec, re-power on to recover		
	OVER VOLTAGE Note.9	21.5 ~ 26V	43 ~ 52V	82 ~ 100V
		Protection type : Shut down and latch off o/p voltage, re-power on to recover		
	REVERSE POLARITY	Protected internal reverse detection, No damage, re-power on to recover after fault condition is removed		
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	CHARGING CURVE	2 or 3 stage selectable through DIP S.W on panel, or SBP-001 with computer		
	CHARGING PARAMETERS PROGRAMMABLE	No		
		Manual setting: No		
	AUTO RANGING CHARGING CURVE (Typ.)	Please refer to functin manual for more detail (page 8)		
		Charging current adjustable 50~100% by via potentiometer on panel (Only for auto ranging mode)		
	CANBUS INTERFACE	CANBus 2.0B, Can control, Setting and monitoring(VO,IO,charging curve, internal temp. and DC output ON/OFF)		
	CHARGER OK	The TTL signal out, Charger OK = H(4.5 ~ 5.5V) ; Charger failure or protection status =L(-0.5 ~ +0.5V)		
	BATTERY FULL SIGNAL	The TTL signal out, Battery full = H(4.5 ~ 5.5V); Charging = L(-0.5 ~ +0.5V)		
	REMOTE CONTROL	Short : Charger normal work Open : Charger stop charging		
	TEMPERATURE COMPENSATION	By external NTC		
	FAN SPEED CONTROL	Depends on internal temperature		
ENVIRON- MENT	WORK TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
OTHER	MTBF	190.0K hrs min. Telcordia SR-332(Bellcore) ; 45.1K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	As Design		
	PACKING	2.93Kg; 4cs/14Kg/2.58CUFT		

900W-B Series

900W-B	Model	24V20A	24V30A	48V10A	48V15A	60V13A
INPUT	AC Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	AC Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=6.5A	<=9.6A	<=6.4A	<=9.6A	<=10.5A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	<=640W	<=960W	<=640W	<=960W	<=1054W
	AC Plug	L+N+PE	L+N+PE	L+N+PE	IL+N+PE	L+N+PE
OUTPUT	Conversion efficiency	≥ 0.9	≥ 0.9	≥ 0.9	≥ 0.9	≥ 0.9
	Rated output voltage	28.8V	28.8V	57.6V	57.6V	73V
	Rated output current	20A	30A	10A	15A	13A
	Rated output power	576W	860W	576W	864W	949W
	DC output voltage	10Vdc~32Vdc	10Vdc~32Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~75Vdc
	Output plug	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50
COMM	CAN-BUS	Optional	Optional	Optional	Optional	Optional
	Protocol	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension					
	Weight					
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP55	IP55	IP55	IP55	IP55
	IP Rating (Optional)	N/A	N/A	N/A	N/A	N/A
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m

900W-B-RS485 Series

900W-B	Model	24V20A	24V30A	48V10A	48V15A	60V13A
INPUT	AC Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	AC Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=6.5A	<=9.6A	<=6.4A	<=9.6A	<=10.5A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	<=640W	<=960W	<=640W	<=960W	<=1054W
	AC Plug	L+N+PE	L+N+PE	L+N+PE	IL+N+PE	L+N+PE
OUTPUT	Conversion efficiency	≥ 0.9	≥ 0.9	≥ 0.9	≥ 0.9	≥ 0.9
	Rated output voltage	28.8V	28.8V	57.6V	57.6V	73V
	Rated output current	20A	30A	10A	15A	13A
	Rated output power	576W	860W	576W	864W	949W
	DC output voltage	10Vdc～32Vdc	10Vdc～32Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～75Vdc
	Output plug	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50	Anderson SB50
COMM	RS485	RS485	Optional	Optional	Optional	Optional
	Protocol	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	Optional	Optional	Optional	Optional	Optional
	Weight					
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP55	IP55	IP55	IP55	IP55
	IP Rating (Optional)	N/A	N/A	N/A	N/A	N/A
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m

1200W-A Series

1200W-A	Model	48V18A	60V15A	72V13A
INPUT	AC Voltage	AC220V±15%	AC220V±15%	AC220V±15%
	AC Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=8A	<=7.6A	<=7.9A
	Power factor	≥ 0.94	≥ 0.7	≥ 0.7
	Input power	<=1500W	<=1165W	<=1211W
	AC Plug	Industrial / L+N+PE	Industrial / L+N+PE	Industrial / L+N+PE
OUTPUT	Conversion efficiency	≥ 0.9	≥ 0.9	≥ 0.9
	Rated output voltage	57.6V	73V	87.6V
	Rated output current	18A	15A	13A
	Rated output power	1200W	1095W	1139W
	DC output voltage	42Vdc～80Vdc	10Vdc～75Vdc	10Vdc～100Vdc
	Output plug		Anderson SB175	Anderson SB175,
COMM	CAN-BUS	Optional	Optional	Optional
	Protocol	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension			
	Weight			
	Cooling mode	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-30 ~ +70℃	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	N/A	IP67	IP67
	IP Rating (Optional)	N/A	N/A	N/A
	Noise		<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m

1200W-A-COM Series

1200W-A	Model	48V18A	60V15A	72V13A
INPUT	AC Voltage	AC220V±15%	AC220V±15%	AC220V±15%
	AC Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=8A	<=7.6A	<=7.9A
	Power factor	≥ 0.94	≥ 0.7	≥ 0.7
	Input power	<=1500W	<=1165W	<=1211W
	AC Plug	Industrial / L+N+PE	Industrial / L+N+PE	Industrial / L+N+PE
OUTPUT	Conversion efficiency	≥ 0.9	≥ 0.9	≥ 0.9
	Rated output voltage	57.6V	73V	87.6V
	Rated output current	18A	15A	13A
	Rated output power	1200W	1095W	1139W
	DC output voltage	42Vdc～80Vdc	10Vdc～75Vdc	10Vdc～100Vdc
	Output plug		Anderson SB175	Anderson SB175,
COMM	CAN-BUS-RS485	Optional	Optional	Optional
	Protocol	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension			
	Weight			
	Cooling mode	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-30 ~ +70℃	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	N/A	IP67	IP67
	IP Rating (Optional)	N/A	N/A	N/A
	Noise		<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m

1200W-B Series

1200W-B	Model	48V20A	60V15A	72V13A
INPUT	AC Voltage	AC220V±15%	AC220V±15%	AC220V±15%
	AC Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=8A	<=7.6A	<=7.9A
	Power factor	≥ 0.7	≥ 0.7	≥ 0.7
	Input power	<=1226W	<=1165W	<=1211W
	AC Plug	Industrial / L+N+PE	Industrial / L+N+PE	Industrial / L+N+PE
OUTPUT	Conversion efficiency	≥ 0.9	≥ 0.9	≥ 0.9
	Rated output voltage	57.6V	73V	87.6V
	Rated output current	20A	15A	13A
	Rated output power	1152W	1095W	1139W
	DC output voltage	10Vdc～60Vdc	10Vdc～75Vdc	10Vdc～100Vdc
	Output plug	Anderson SB175, Male or Female plug, optional	Anderson SB175, Male or Female plug, optional	Anderson SB175, Male or Female plug, optional
COMM	CAN-BUS	Optional	Optional	Optional
	Protocol	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension			
	Weight	6KG	6KG	6KG
	Cooling mode	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP55	IP55	IP55
	IP Rating (Optional)	N/A	N/A	N/A
	Noise	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m

3000W Series

3000W	Model	24V100A	48V50A	36V50A	36V100A	72V35A
INPUT	AC Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	AC Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=14.6A	<=14.4	10.8	21.6	<=15.3A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 3164W	≤ 3164W	2373	4752	≤ 3369W
	AC Plug	L+N+PE	L+N+PE	L+N+PE	L+N+PE	L+N+PE
OUTPUT	Conversion efficiency	≥ 0.91	≥ 0.91	≥ 0.91	≥ 0.91	≥ 0.91
	Rated output voltage	28.8V	57.6V	43.2	43.2	87.6V
	Rated output current	100A	50A	50A	100A	35A
	Rated output power	2880W	2880W	2160	4320	3066W
	DC output voltage	10Vdc～32Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～100Vdc
	Output plug	Rema160A	Rema80A	Rema80A	Rema80A	Rema80A
COMM	CAN-BUS	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension					
	Weight	11KG	11KG	11KG	11KG	11KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m

TD-3200W Series

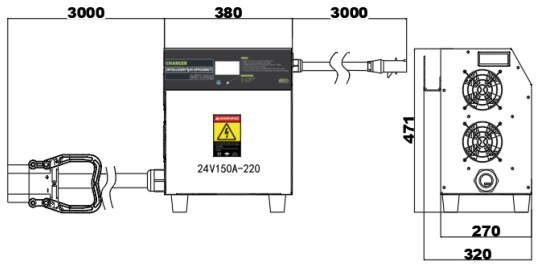
Model		TD-3200W-24	TD-3200W-48
OUTPUT	BOOST CHARGE VOLTAGE(Vboost)(default)	28.8V	57.6V
	FLOAT CHARGE VOLTAGE(Vfloat)(default)	27.6V	55.2V
	CONSTANT CURRENT(CC)(default)	110A	55A
	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR	
		23.5 ~ 30V	47.5 ~ 58.8V
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note.3	330 ~ 1000Ah	180 ~ 550Ah
	LEAKAGE CURRENT FROM BATTERY (Typ.)	1.5mA	
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.97/230VAC at full load	
	EFFICIENCY (Typ.)	93.5%	94.5%
	AC CURRENT (Typ.) Note.4	17A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 55A/230VAC	
	LEAKAGE CURRENT	<2mA / 230VAC	
PROTECTION	OVER VOLTAGE	31.5 ~ 37.5V	63 ~ 75V
		Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 75 ~ 125% of nominal output voltage. Please refer to the Function Manual.	
	OUTPUT CURRENT PROGRAMMABLE(PC)	Adjustment of output voltage is allowable to 20 ~ 100% of rated current. Please refer to the Function Manual.	
	AUXILIARY POWER	5V @ 0.3A, tolerance ±10%, ripple 150mVp-p, 12V @ 0.8A, tolerance ±10%, ripple 450mVp-p	
	REMOTE ON-OFF CONTROL	By electrical signal or dry contact Power ON:short Power OFF:open. Please refer to the Function Manual	
	TEMPERATURE COMPENSATION	-3mV / ℃ / cell / (12V = 6 cells ; 24V = 12 cells ; 48V = 24 cells)	
	ALARM SIGNAL	Isolated signal output for T-alarm and DC-OK	

ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH		
	EMC EMISSION	**Parameter**	**Standard**	**Test Level / Note**
		Conducted	EN55032 (CISPR32) / EN55011 (CISPR11)	Class B
		Radiated	EN55032 (CISPR32) / EN55011 (CISPR11)	Class A
		Harmonic Current	EN61000-3-2	-----
		Voltage Flicker	EN61000-3-3	-----
	EMC IMMUNITY	EN55024 , EN61204-3, EN61000-6-2		
		Parameter	**Standard**	**Test Level / Note**
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	EN61000-4-3	Level 3
		EFT / Burst	EN61000-4-4	Level 3
		Surge	EN61000-6-2	2KV/Line-Line 4KV/Line-Earth
		Conducted	EN61000-4-6	Level 3
		Magnetic Field	EN61000-4-8	Level 4
		Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods
OTHERS	MTBF	160.1K hrs min. Telcordia SR-332 (Bellcore) ; 38.9K hrs min. MIL-HDBK-217F (25℃)		

NOTE

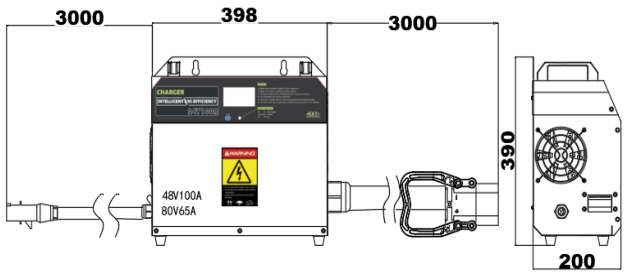
1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and TADA for details.
2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
3. This is TADA suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.
4. Derating may be needed under low input voltages. Please check the derating curve for more details.
5. The charger is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 600mm*900mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.” (as available on http://www.tadames.com)
6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).

6000W-S Series



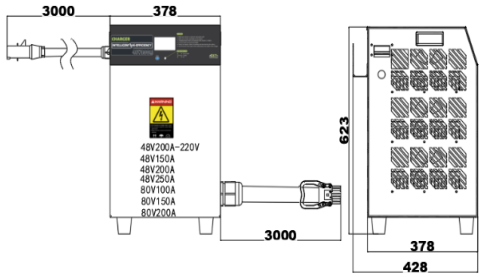
6000W-S	Model	24V150A	24V200A	48V100V-220	80V65A
INPUT	AC Voltage	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	AC Phase	Single Phase	Single Phase	Single Phase	Single Phase
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=24A	<=29A	<=29A	<=29A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 4.7KW	≤6.3KW	≤ 6.3KW	≤ 6.2KW
	AC Plug	L+N+PE	L+N+PE	L+N+PE	L+N+PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	28.8V	28.8V	57.6V	87.6V
	Rated output current	150A	200A	100A	65A
	Rated output power	4.32KW	5.76KW	5.76KW	5.7KW
	DC output voltage	10Vdc～32Vdc	10Vdc～32Vdc	10Vdc～60Vdc	10Vdc～100Vdc
	Output plug	Rema320A	Rema320A	Rema160A	Rema80A
COMM	CAN-BUS	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	380X320X471(mm)	380X320X471(mm)	380X320X471(mm)	380X320X471(mm)
	Weight	26KG	26KG	26KG	26KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m

6000W Series



6000W	Model	24V150A	36V150A	48V80A	48V80A	48V80A	48V100A	36V50A
INPUT	AC Voltage	AC380V±15%	AC380V±15%	AC220V±15%	AC380V±15%	AC480V±15%	AC380V±15%	AC380V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	7.1A	<=10.7A	13.1A	7.6A	6A	9.51A	3.56A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	4695W	≤ 7W	5008w	5008w	5008w	6260w	2347w
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	28.8V	43.2V	57.6V	57.6V	57.6V	57.6V	43.2
	Rated output current	150A	150A	80A	80A	80A	100A	50A
	Rated output power	4.32KW	6.5KW	4.6KW	4.6KW	4.6KW	5.7KW	2.16
	DC output voltage	10Vdc～32Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～60Vdc	10Vdc～60Vdc
	Output plug	Rema320A	Rema320A	Rema160A	Rema160A	Rema160A	Rema160A	Rema160A
COMM	CAN-BUS	Y	Y	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lithium	Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	398X200X390(mm)	378X428X623(mm)	398X200X390(mm)	398X200X390(mm)	398X200X390(mm)	398X200X390(mm)	398X200X390(mm)
	Weight	17KG	17KG	17KG	17KG	17KG	17KG	17KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m

12000W Series

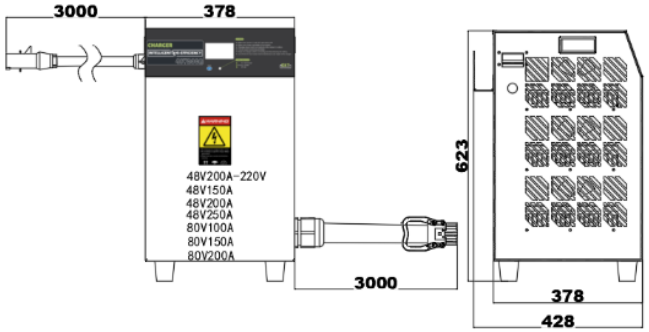


12000W	Model	36V200A	48V100A	48V150A	48V150A	48V200A	48V200A
INPUT	AC Voltage	AC380V±15%	AC220V±15%	AC380V±15%	AC480V±15%	AC380V±15%	AC480V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=14.3A	<=16.6A	<=14.3A	<=11.3A	<=19A	<=15A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 9.4KW	≤ 6.3KW	≤ 9.4KW	≤ 9.4KW	≤ 12.5KW	≤ 12.5KW
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	43.2V	57.6V	57.6V	57.6V	57.6V	87.6V
	Rated output current	200A	100A	150A	150A	200A	200A
	Rated output power	8.6KW	5.7KW	8.6KW	8.6KW	11.5KW	11.5KW
	DC output voltage	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~100Vdc
	Output plug	Rema320A	Rema160A	Rema320A	Rema320A	Rema320A	Rema320A
COMM	CAN-BUS	Y	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)
	Weight	40KG	40KG	40KG	40KG	40KG	40KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m

12000W Series

12000W	Model	80V65A	80V150A	80V150A	115.2V100A	153.6V70A
INPUT	AC Voltage	AC220V±15%	AC380V±15%	AC480V±15%	AC380V±15%	AC380V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=16.2A	<=22A	<=17.2A	<=21A	<=20A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤6.2KW	≤14.3KW	≤14.3KW	≤14.1KW	≤ 13.2KW
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	87.6V	87.6V	87.6V	129.6V	172.8V
	Rated output current	65A	150A	150A	100A	70A
	Rated output power	5.7KW	13.1KW	13.1KW	13KW	12.1KW
	DC output voltage	10Vdc~100Vdc	10Vdc~100Vdc	10Vdc~100Vdc	10Vdc~132Vdc	10Vdc~176Vdc
	Output plug	Rema160A	Rema320A	Rema320A	Rema160A	Rema160A
COMM	CAN-BUS	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lithium	Lithium	Lithium	Lithium
	Dimension	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)
	Weight	40KG	40KG	40KG	40KG	40KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m

18000W Series

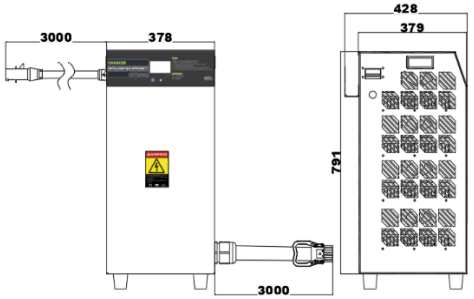


18000W	Model	36V250A	48V150A	48V200A	48V250A	48V250A	80V150A
INPUT	AC Voltage	AC380V±15%	AC220V±15%	AC220V±15%	AC380V±15%	AC480V±15%	AC220V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=18A	<=25A	<=33.2A	<=24A	<=18.8A	<=37.5A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 11.7W	≤ 9.4KW	≤ 12.5KW	≤ 15.7KW	≤ 15.7KW	≤ 14.3KW
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	43.2V	57.6V	57.6V	57.6V	57.6V	87.6V
	Rated output current	250A	150A	200A	250A	250A	150A
	Rated output power	10.8KW	8.6KW	11.5KW	14.4KW	14.4KW	13.2KW
	DC output voltage	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~60Vdc	10Vdc~100Vdc
	Output plug	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A
COMM	CAN-BUS	Y	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)
	Weight	46KG	46KG	46KG	46KG	46KG	46KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m

18000W Series

18000W	Model	80V200A	80V200A	80V200A	96V150A	115.2V150A	153.6V100A
INPUT	AC Voltage	AC220V±15%	AC380V±15%	AC480V±15%	AC380V±15%	AC380V±15%	AC310-450V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=50A	<=29A	<=23A	<=26.8A	<=32.1A	<=28.5A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 19KW	≤ 19KW	≤ 19KW	≤17.6KW	≤21.1KW	≤ 18.8KW
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	87.6V	87.6V	87.6V	108V	129.6V	172.8V
	Rated output current	200A	200A	200A	150A	150A	100A
	Rated output power	17.5KW	17.5KW	17.5KW	16.2KW	19.5KW	17.3KW
	DC output voltage	10Vdc~100Vdc	10Vdc~100Vdc	10Vdc~100Vdc	10Vdc~110Vdc	10Vdc~132Vdc	10Vdc~176Vdc
	Output plug	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A
COMM	CAN-BUS	Y	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lead-Acid / Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
	Dimension	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)	378X428X623(mm)
	Weight	46KG	46KG	46KG	46KG	46KG	46KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m

24000W Series



24000W	Model	48V250A	80V250A	80V250A	80V250A	96V200A	153.6V150A
INPUT	AC Voltage	AC220V±15%	AC220V±15%	AC380V±15%	AC480V±15%	AC380V±15%	AC380V±15%
	AC Phase	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire	Three phase four wire
	Rated Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Input Currentt(Max)	<=41A	<=63A	<=36.2A	<=28.6A	<=36A	<=42.8A
	Power factor	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
	Input power	≤ 15.6KW	≤ 23.8KW	≤ 23.8KW	≤ 23.8KW	≤ 23.5KW	≤ 28.2KW
	AC Plug	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE	Three Phase + PE
OUTPUT	Conversion efficiency	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92	≥ 0.92
	Rated output voltage	57.6V	87.6	87.6	87.6	108V	172.8V
	Rated output current	250A	250A	250A	250A	200A	100A
	Rated output power	14.4KW	21.9KW	21.9KW	21.9KW	21.6KW	26KW
	DC output voltage	10Vdc～60Vdc	10Vdc～100Vdc	10Vdc～100Vdc	10Vdc～100Vdc	10Vdc～110Vdc	10Vdc～176Vdc
	Output plug	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A	Rema320A
COMM	CAN-BUS	Y	Y	Y	Y	Y	Y
	Protocol	Customized	Customized	Customized	Customized	Customized	Customized
OTHER	Battery Type	Lithium	Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium	Lead-Acid / Lithium
	Dimension	378X428X791(mm)	378X428X791(mm)	378X428X791(mm)	378X428X791(mm)	378X428X791(mm)	378X428X791(mm)
	Weight	55KG	55KG	55KG	55KG	55KG	55KG
	Cooling mode	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling
	Ambient Temperature	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C	-20° C ~ 50° C
	Working humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%	0% ~ 95%
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20
	IP Rating (Optional)	IP54	IP54	IP54	IP54	IP54	IP54
	Noise	<65dB	<65dB	<65dB	<65dB	<65dB	<65dB
	Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m