



Guangdong Aipower New Energy Technology Co.,ltd.

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Guangdong Aipower New Energy Technology Co., Itd.





Profile • • •

- China Top Manufacturer of Lithium Battery Chargers
- Founded in 2015
- Registered Capital: 14.5 million USD (=100 million RMB)
- Area of factory: 20,000 square meters
- Factory Certification: ISO45001, ISO14001, ISO9001, IATF16949
- Service: OEM, ODM, Customization
- Sub-companies producing metal housings, power modules and lithium batteries
- Main Customers: BYD, HELI, XCMG, LIUGONG, JAC, LONKING, etc.



Certificates • • •











































24V 36V 48V 72V 80V 48V **72V** 80V APSP-24V80A-220CE ◆ APSP-36V150A-400CE → APSP-48V100A-400CE → APSP-72V150A-400CE APSP-80V100A-400CE APSP-48V100A-480UL APSP-72V100A-480UL APSP-80V100A-480UL ♦ APSP-24V100A-220CE ♦ APSP-36V200A-400CE → APSP-48V150A-400CE → APSP-72V200A-400CE ♦ APSP-80V150A-400CE APSP-48V150A-480UL APSP-72V150A-480UL ♦ APSP-80V150A-480UL APSP-80V200A-480UL8 APSP-48V200A-400CE6 ♦ APSP-80V200A-400CE6 APSP-48V200A-480UL8 ♦ APSP-72V200A-480UL ♦ APSP-80V200A-2Q480UL APSP-24V200A-400CE APSP-48V250A-400CE ♦ APSP-24V250A-400CE ◆ APSP-48V300A-400CE

Application • • •



Electric Forklift



AGV



AMR



Application • • •



Electric Forklift





AGV



AMR



Electric Excavator



Trolling Motor



Electric Wheel Loader



Electric Excavator



Trolling Motor



Electric Wheel Loader





Features • • •









- Portable. Easy to hold with one hand.
- Excellent electrical properties. PFC+LLC soft switching technology with high conversion efficiency and high density of module power.
- User-friendly and convenient UI. Manage charging through LCD display+TP+LED+buttons.
- Wide output and input voltage range. Provide battery with stable and reliable charging under unstable power supply.
- Fast, safe and smart. With BMS CAN communication to realize smart management and ensure fast, stable, safe charging and long life.
- Complete protection and self-diagnosis. With protection against overcharge, overvoltage, etc., realizing self-diagnosis and fault display.
- **Modular design.** Hot-swap and modularized design simplify component maintenance and decrease MTTR (Mean Time To Repair).
- **High quality.** CE certified by TUV.

Model	APSP-24V80A-220CE	APSP-24V100A-220CE	
DC Output			
Rated Output Power	1.92kW	2.4kW	
Rated Output Current	80A	100A	
Output Voltage Range	16VDC-	~30VDC	
Current Adjustable Range	5A~80A	5A~100A	
Ripple Wave	€.	1%	
Efficiency	≥9	22%	
Stable Voltage Precision	≤±	0.5%	
Protection	Short ciruit, Overcurrent, Overvoltage, Reverse	e Connection and Over-Temperature Protection	
AC Input			
Rated Input Voltage Degree	Single-pha	ase 220VAC	
Input voltage range	90VAC~	-256VAC	
Input current range	≤12A	≤15A	
Frequency	50Hz~60Hz		
Power factor	≥0.99		
Current distortion	≤5%		
Input Protection	Overvoltage, Under-voltage, Overcu	urrent and lack of phase Protection	
Working Environment			
	-20°C~45°C w	ork normoally	
Working Environment Temperature	45°C~65°C re	educe output	
	Over 65°C	Shutdown	
Storage Temperature	-40°C~75°C		
Relative Humidity	0~9	95%	
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Product Safety and Reliability			
Insulation Strength	IN-OUT: 2120VDC IN-SHELL: 2120VD OUT-SHELL: 2120VDC		
Dimensions and Weight			
Outline Dimensions(mm)	400(H)x213	3(W)x278(D)	
Net Weight	13.5	5KG	
Protection Class	IP20		
Others			
Output Connector	REMA	A plug	
Heat Dissipation	Forced Air-cooling		





Features • • •

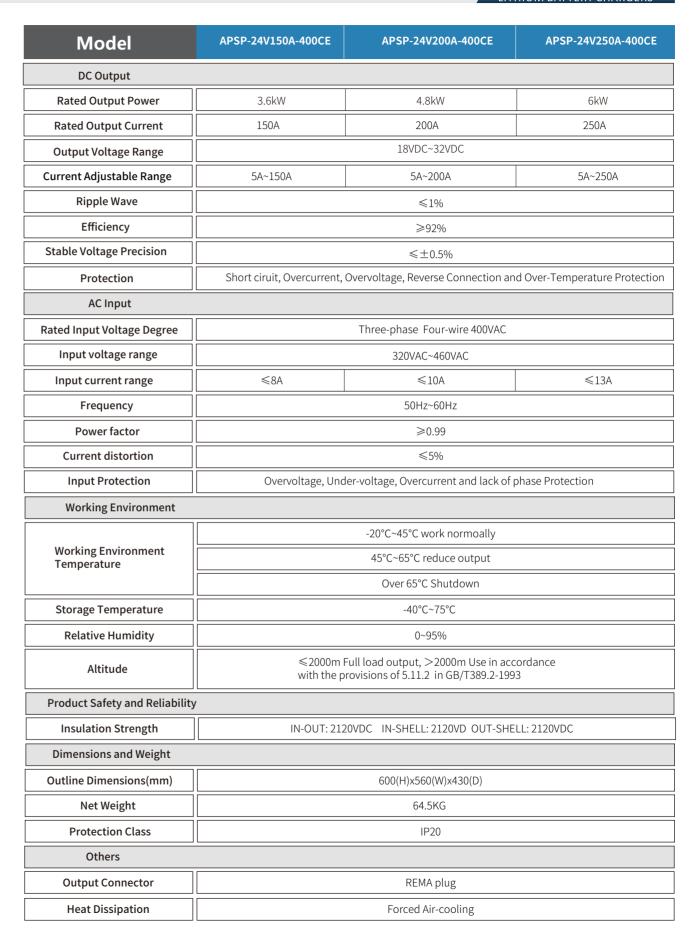


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- **Complete protection and self-diagnosis.** With protection against overcharge, overvoltage, etc., realizing self-diagnosis and fault display.
- Modular design. Hot-swap and modularized design simplify component maintenance and decrease MTTR (Mean Time To Repair).
- **High quality.** CE and UL certified by TUV.











Model	APSP-36V150A-400CE	APSP-36V200A-400CE	APSP-36V250A-400CE	
DC Output	'			
Rated Output Power	5.4kW	7.2kW	9kW	
Rated Output Current	150A	200A	250A	
Output Voltage Range		20VDC~45VDC		
Current Adjustable Range	5A~150A	5A~200A	5A~250A	
Ripple Wave	·	≤1%		
Efficiency		≥92%		
Stable Voltage Precision		≤±0.5%		
Protection	Short ciruit, Overcurrent, O	vervoltage, Reverse Connection and	d Over-Temperature Protection	
AC Input				
Rated Input Voltage Degree		Three-phase Four-wire 400VAC		
Input voltage range		320VAC~460VAC		
Input current range	≤12A	≤14A	≤18A	
Frequency	50Hz~60Hz			
Power factor	≥0.99			
Current distortion	≤5%			
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection			
Working Environment				
		-20°C~45°C work normoally		
Working Environment Temperature	45°C~65°C reduce output			
	Over 65°C Shutdown			
Storage Temperature	-40°C~75°C			
Relative Humidity		0~95%		
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993			
Product Safety and Reliability				
Insulation Strength	IN-OUT: 2120VDC IN-SHELL: 2120VD OUT-SHELL: 2120VDC			
Dimensions and Weight				
Outline Dimensions(mm)		600(H)x560(W)x430(D)		
Net Weight	64.5KG			
Protection Class		IP20		
Others				
Output Connector		REMA plug		
Heat Dissipation	Forced Air-cooling			

Model	APSP-48V100A-400CE	APSP-48V100A-480UL	APSP-48V150A-400CE	
DC Output				
Rated Output Power	4.8kW	4.8kW	7.2kW	
Rated Output Current	100A	100A	150A	
Output Voltage Range	30VDC~60VDC	30VDC~65VDC	30VDC~60VDC	
Current Adjustable Range	5A~100A	5A~100A	5A~150A	
Ripple Wave	5A~100A 5A~150A ≤1%			
Efficiency		≥92%		
Stable Voltage Precision		≤±0.5%		
Protection	Short ciruit Overcurrent O	vervoltage, Reverse Connection an	d Over-Temperature Protection	
AC Input	Short chart, Overcurrent, O	vervoltage, Neverse connection an	d Over-Temperature Frotection	
Rated Input Voltage Degree	Three-phase Four-wire 400VAC	Three-phase Four-wire 480VAC	Three-phase Four-wire 400VAC	
	320VAC~460VAC	•		
Input voltage range		384VAC~528VAC	320VAC~460VAC	
Input current range	≤12A	≪9A	≤15A	
Frequency	50Hz~60Hz			
Power factor	≥0.99			
Current distortion	Overvoltage Under voltage Overcurrent and lack of phase Protection			
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection			
Working Environment	1			
Working Environment		-20°C~45°C work normoally		
Temperature		45°C~65°C reduce output	·	
	Over 65°C Shutdown			
Storage Temperature	-40°C~75°C			
Relative Humidity		0~95%		
Altitude	≤2000m F with the p	Full load output, >2000m Use in ac rovisions of 5.11.2 in GB/T389.2-19	ccordance 93	
Product Safety and Reliability				
Insulation Strength	IN-OUT: 2120VDC IN-SHELL: 2120VD OUT-SHELL: 2120VDC	IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC	IN-OUT: 2120VDC IN-SHELL: 2120VD OUT-SHELL: 2120VDC	
Dimensions and Weight				
Outline Dimensions(mm)		600(H)x560(W)x430(D)		
Net Weight	64.5KG	55KG	64.5KG	
Protection Class		IP20		
Others				
Output Connector		REMA plug		
Heat Dissipation		Forced Air-cooling		

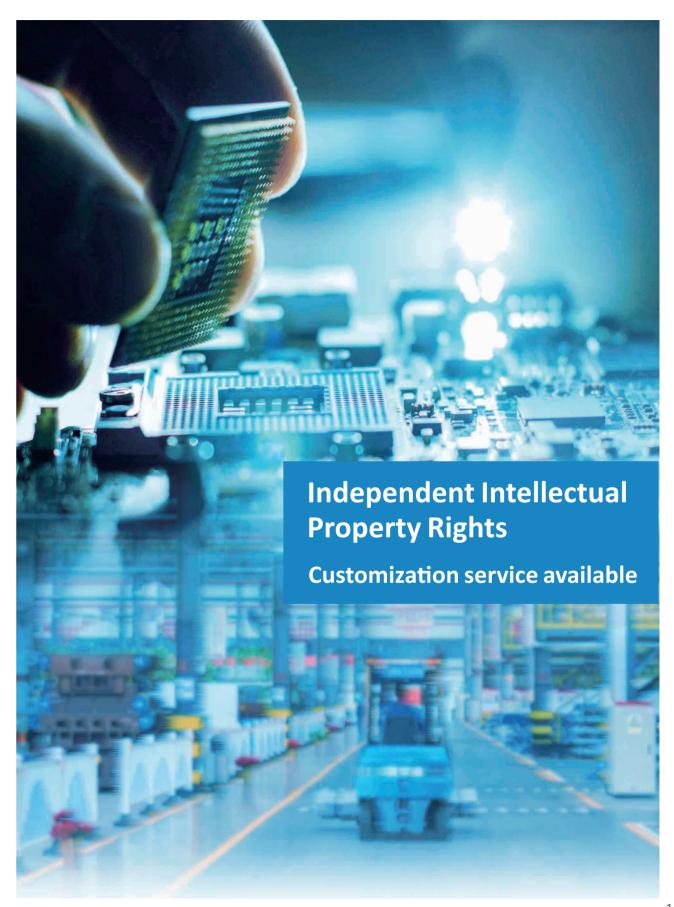


Model	APSP-48V200A-400CE	APSP-48V250A-400CE	APSP-48V300A-400CE
DC Output			
Rated Output Power	9.6kW	12kW	14.4kW
Rated Output Current	200A	250A	300A
Output Voltage Range		30VDC~60VDC	
Current Adjustable Range	5A~200A	5A~250A	5A~300A
Ripple Wave		≤1%	
Efficiency		≥92%	
Stable Voltage Precision		≤±0.5%	
Protection	Short ciruit, Overcurrent, Ov	ervoltage, Reverse Connection and	Over-Temperature Protection
AC Input			
Rated Input Voltage Degree		Three-phase Four-wire 400VAC	
Input voltage range		320VAC~460VAC	
Input current range	≤20A	≤26A	≤30A
Frequency	50Hz~60Hz		
Power factor	≥0.99		
Current distortion	≤5%		
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection		
Working Environment			
		-20°C~45°C work normoally	
Working Environment Temperature	45°C~65°C reduce output		
	Over 65°C Shutdown		
Storage Temperature	-40°C~75°C		
Relative Humidity	0~95%		
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Product Safety and Reliability			
Insulation Strength	IN-OUT: 212	OVDC IN-SHELL: 2120VD OUT-SHE	ELL: 2120VDC
Dimensions and Weight			
Outline Dimensions(mm)		600(H)x560(W)x430(D)	
Net Weight		64.5KG	
Protection Class		IP20	
Others			
Output Connector		REMA plug	
Heat Dissipation	Forced Air-cooling		

Model	APSP-72V100A-480UL	APSP-72V150A-400CE	APSP-72V200A-400CE	
DC Output			<u> </u>	
Rated Output Power	7.2kW	10.8kW	14.4kW	
Rated Output Current	100A	150A	200A	
Output Voltage Range		30VDC~90VDC	1	
Current Adjustable Range	5A~100A 5A~150A 5A~200A			
Ripple Wave		≤1%		
Efficiency		≥92%		
Stable Voltage Precision		≤±0.5%		
Protection	Short ciruit, Overcurrent, O	vervoltage, Reverse Connection an	d Over-Temperature Protection	
AC Input				
Rated Input Voltage Degree	Three-phase Four-wire 480VAC	Three-phase Four-wire 400VAC	Three-phase Four-wire 400VAC	
Input voltage range	384VAC~528VAC	320VAC~460VAC	320VAC~460VAC	
Input current range	≤12A	≤22A	≤28A	
Frequency	50Hz~60Hz			
Power factor	≥0.99			
Current distortion	≤5%			
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection			
Working Environment	Working Environment			
		-20°C~45°C work normoally		
Working Environment Temperature	45°C~65°C reduce output			
	Over 65°C Shutdown			
Storage Temperature	-40°C~75°C			
Relative Humidity		0~95%		
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993			
Product Safety and Reliability				
Insulation Strength	IN-OUT: 2200VDC			
Dimensions and Weight				
Outline Dimensions(mm)		600(H)x560(W)x430(D)		
Net Weight	55KG	64.5KG	64.5KG	
Protection Class		IP20		
Others				
Output Connector		REMA plug		
Heat Dissipation		Forced Air-cooling		



Model	APSP-80V100A-480UL	APSP-80V100A-400CE	APSP-80V150A-400CE	APSP-80V200A-400C
DC Output	_		'	
Rated Output Power	8kW	8kW	12kW	16kW
Rated Output Current	100A	100A	150A	200A
Output Voltage Range		30VDC~	-100VDC	
Current Adjustable Range	5A~100A	5A~100A	5A~150A	5A~200A
Ripple Wave		€	1%	
Efficiency		≥9	92%	
Stable Voltage Precision		≤±	0.5%	
Protection	Short ciruit, Overcuri	rent, Overvoltage, Revers	e Connection and Over-Te	emperature Protection
AC Input				
Rated Input Voltage Degree	Three-phase Four-wire 480VAC	Th	ree-phase Four-wire 400VA	AC .
Input voltage range	384VAC~528VAC		320VAC~460VAC	
Input current range	≤13A	≤16A	≤24A	≤31A
Frequency		50Hz	~60Hz	
Power factor	≥0.99			
Current distortion	≤5%			
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection			
Working Environment				
	-20°C~45°C work normoally			
Working Environment Temperature	45°C~65°C reduce output			
•		Over 65°C	Shutdown	
Storage Temperature	-40°C~75°C			
Relative Humidity		0~95%		
Altitude	≤2000m Full load output, >2000m Use in accordance			
Attitude	wit	th the provisions of 5.11.2	? in GB/T389.2-1993	
Product Safety and Reliabilit	у			
Insulation Strength	IN-OUT: 2200VDC			
Dimensions and Weight				
Outline Dimensions(mm)		600(H)x560	O(W)x430(D)	
Net Weight	55KG	64.5KG	64.5KG	64.5KG
Protection Class		IP	220	
Others				
Output Connector		REMA	A plug	
	Forced Air-cooling			







Features • • •









- Complete protection and self-diagnosis. With protection against overcharge, overvoltage, etc., realizing self-diagnosis and fault display.
- **User-friendly and convenient UI.** Manage charging through LCD display +TP+LED+buttons.
- Excellent electrical properties. PFC+LLC soft switching technology with high conversion efficiency and high density of module power.
- Fast, safe and smart. With BMS CAN communication to realize smart management and ensure fast, stable, safe charging and long life.
- Wide output and input voltage range. Provide battery with stable and reliable charging under unstable power supply.
- **Modular design.** Hot-swap and modularized design simplify component maintenance and decrease MTTR (Mean Time To Repair).
- **High quality.** UL certified by TUV.

DC Output DC Output	Model	ADCD40V4F0A 400UU	ADCD 40V200A 400VII 0	
Rated Output Power T.2kW 9.5kW	Model	APSP48V150A-480UL	APSP-48V200A- 480UL8	
Rated Output Current 150A 200A Output Voltage Range 30VDC-65VDC	DC Output			
Output Voltage Range 30VDC-65VDC Current Adjustable Range SA-150A SA-200A Ripple Wave ≪ 1% SA-200A Efficiency ≫ 92% Stable Voltage Precision Stable Voltage Precision Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection AC Input Rated Input Voltage Degree Three-phase Four-wire 480VAC Input voltage range 384VAC-928VAC Input current range \$13A \$16A Frequency \$0Hz-60Hz Power factor >≥0.99 Current distortion ≪55% Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment 4.0°C-45°C work normoally Working Environment 4.0°C-45°C reduce output Cover 65°C Shutdown Storage Temperature 40°C-45°C work normoally Altitude ***Cover 65°C Shutd	Rated Output Power	7.2kW	9.6kW	
Current Adjustable Range SA-150A SA-200A	Rated Output Current	150A	200A	
Ripple Wave	Output Voltage Range	30VD0	C~65VDC	
Stable Voltage Precision Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	Current Adjustable Range	5A~150A	5A~200A	
Stable Voltage Precision Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	Ripple Wave	<	£1%	
Protection Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection AC Input Rated Input Voltage Degree Three-phase Four-wire 480VAC Input voltage range 384VAC-528VAC Input current range ≤ 13A ≤ 16A Frequency 50Hz-60Hz Power factor	Efficiency	≥	92%	
Rated Input Voltage Degree Three-phase Four-wire 480VAC Input voltage range 384VAC-528VAC Input current range \$13A \$16A Frequency 50Hz-60Hz Power factor \$0.99 Current distortion \$596 Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment Temperature 45°C-65°C reduce output Current distortion Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment -20°C-45°C work normoally Working Environment 45°C-65°C reduce output Over 65°C Shutdown Storage Temperature -40°C-75°C Relative Humidity 0-95% Altitude \$2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability Insulation Strength IN-OUT: 2200VDC IN-SHELL: 1700VDC Dimensions and Weight Outline Dimensions(mm) 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Stable Voltage Precision	≤ ±	±0.5%	
Rated Input Voltage Degree Three-phase Four-wire 480VAC Input voltage range 384VAC-528VAC Input current range ≤13A ≤16A Frequency 50Hz-60Hz Power factor ≥0.99 Current distortion €5% Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment 45°C-65°C reduce output Temperature 40°C-75°C Relative Humidity 0-95% Altitude \$<2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability Insulation Strength IN-OUT: 2200VDC IN-SHELL: 1700VDC Dimensions and Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Protection	Short ciruit, Overcurrent, Overvoltage, Reve	rse Connection and Over-Temperature Protection	
Input voltage range 384VAC-528VAC Input current range ≤13A ≤16A Frequency 50Hz-60Hz Power factor ≥0.99 Current distortion 0vervoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment	AC Input			
Input current range	Rated Input Voltage Degree	Three-phase F	Four-wire 480VAC	
Frequency Power factor Current distortion Solhz-60Hz Power factor Current distortion Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment Working Environment Temperature Over 65°C reduce output Over 65°C Shutdown Storage Temperature A0°C~75°C Relative Humidity O-95% Altitude Solhz-60°C reduce output O-95% Altitude Solhz-60°C shutdown Storage Temperature Insulation Strength Insulation Strength Insulation Strength Insulation Strength Outline Dimensions and Weight Outline Dimensions(mm) Sol(H)x-560(W)x-430(D) Net Weight Frotection Class IP20 Others Output Connector REMA plug	Input voltage range	384VA(C~528VAC	
Power factor	Input current range	≤13A	≤16A	
Current distortion ≤5% Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection Working Environment Temperature -20°C-45°C work normoally Working Environment Temperature 45°C-65°C reduce output Over 65°C Shutdown Storage Temperature -40°C-75°C Relative Humidity 0~95% Altitude ≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector	Frequency	50H.	z~60Hz	
Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection	Power factor	≥0.99		
Working Environment Temperature -20°C~45°C work normoally 45°C~65°C reduce output Over 65°C Shutdown Storage Temperature -40°C~75°C Relative Humidity 0-95% Altitude \$\frac{2000m}{\$\text{Full load output,}} > 2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability Insulation Strength IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight Outline Dimensions(mm) 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Current distortion	<	5%	
Continue to the provision of the provisions of the provisions and Weight Coutling Dimensions and Weight Coutling Dimensions (mm) Coutling Dimension	Input Protection	Overvoltage, Under-voltage, Over	urrent and lack of phase Protection	
Working Environment Temperature 45°C~65°C reduce output Over 65°C Shutdown Storage Temperature -40°C~75°C Relative Humidity	Working Environment			
Temperature Over 65°C Shutdown Storage Temperature -40°C~75°C Relative Humidity O-95% Altitude Second Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability Insulation Strength IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight Outline Dimensions(mm) Remain Second Seco		-20°C~45°C work normoally		
Storage Temperature Relative Humidity 0~95% Altitude ≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight 800(H)x560(W)x430(D) Outline Dimensions(mm) 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others REMA plug	Working Environment Temperature	45°C~65°C reduce output		
Relative Humidity 0~95% Altitude ≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993 Product Safety and Reliability IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug		Over 65°C Shutdown		
Altitude \$\leq 2000 \text{m Full load output, } > 2000 \text{m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993}\$ Product Safety and Reliability Insulation Strength	Storage Temperature	-40°C~75°C		
Product Safety and Reliability Insulation Strength IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC Dimensions and Weight Outline Dimensions(mm) Net Weight Others Output Connector REMA plug	Relative Humidity	0~	95%	
Insulation Strength	Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Dimensions and Weight Outline Dimensions(mm) 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Product Safety and Reliability			
Outline Dimensions(mm) 800(H)x560(W)x430(D) Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Insulation Strength	IN-OUT: 2200VDC IN-SHELL	: 2200VD OUT-SHELL: 1700VDC	
Net Weight 64.5KG Protection Class IP20 Others Output Connector REMA plug	Dimensions and Weight			
Protection Class IP20 Others Output Connector REMA plug	Outline Dimensions(mm)	800(H)x560(W)x430(D)		
Others Output Connector REMA plug	Net Weight	64.5KG		
Output Connector REMA plug	Protection Class	IP20		
	Others			
Heat Dissipation Forced Air-cooling	Output Connector	REM	IA plug	
	Heat Dissipation	Forced	Air-cooling	



Model	APSP-72V150A-480UL	APSP-72V200A-480UL	
DC Output		'	
Rated Output Power	10.8kW	14.4kW	
Rated Output Current	150A	200A	
Output Voltage Range	30VDC	~90VDC	
Current Adjustable Range	5A~150A	5A~200A	
Ripple Wave	<u> </u>	11%	
Efficiency	>	92%	
Stable Voltage Precision	≤±	:0.5%	
Protection	Short ciruit, Overcurrent, Overvoltage, Revers	se Connection and Over-Temperature Protection	
AC Input			
Rated Input Voltage Degree	Three-phase F	our-wire 480VAC	
Input voltage range	384VAC	~528VAC	
Input current range	≤18A	≤24A	
Frequency	50Hz~60Hz		
Power factor	≥0.99		
Current distortion	≤5%		
Input Protection	Overvoltage, Under-voltage, Overc	urrent and lack of phase Protection	
Working Environment			
	-20°C~45°C v	vork normoally	
Working Environment Temperature	45°C~65°C r	educe output	
	Over 65°C	Shutdown	
Storage Temperature	-40°C~75°C		
Relative Humidity	0~	95%	
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Product Safety and Reliability			
Insulation Strength	IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC		
Dimensions and Weight			
Outline Dimensions(mm)	800(H)x56	0(W)x430(D)	
Net Weight	64.5KG		
Protection Class	IP20		
Others			
Output Connector	REMA plug		
Heat Dissipation	Forced Air-cooling		

Model	APSP-80V150A-480UL	APSP-80V200A-480UL8	
DC Output	711 61 637 2537 1556 2	711 07 0072001 100020	
Rated Output Power	12kW	16kW	
Rated Output Current	150A	200A	
Output Voltage Range	30VDC~		
		I	
Current Adjustable Range	5A~150A	5A~200A	
Ripple Wave	·	1%	
Efficiency		2%	
Stable Voltage Precision		0.5%	
Protection	Short ciruit, Overcurrent, Overvoltage, Reverse	e Connection and Over-Temperature Protection	
AC Input			
Rated Input Voltage Degree	Three-phase F	our-wire 480VAC	
Input voltage range	384VAC~528VAC		
Input current range	≤20A	≤26A	
Frequency	50Hz~60Hz		
Power factor	≥0.99		
Current distortion	≤5%		
Input Protection	Overvoltage, Under-voltage, Overcu	ırrent and lack of phase Protection	
Working Environment			
	-20°C~45°C w	ork normoally	
Working Environment Temperature	45°C~65°C re	educe output	
	Over 65°C	Shutdown	
Storage Temperature	-40°C~75°C		
Relative Humidity	0~95%		
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Product Safety and Reliability			
Insulation Strength	IN-OUT: 2200VDC IN-SHELL:	2200VD OUT-SHELL: 1700VDC	
Dimensions and Weight			
Outline Dimensions(mm)	800(H)x560	(W)x430(D)	
Net Weight	64.5	5KG	
Protection Class	IP20		
Others			
Output Connector	REMA	n plug	
Heat Dissipation	Forced Air-cooling		





Features • • •







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- Complete protection and self-diagnosis. With protection against overcharge, overvoltage, etc., realizing self-diagnosis and fault display.
- **User-friendly and convenient UI.** Manage charging through LCD display +TP+LED+buttons.
- Excellent electrical properties. PFC+LLC soft switching technology with high conversion efficiency and high density of module power.
- Fast, safe and smart. With BMS CAN communication to realize smart management and ensure fast, stable, safe charging and long life.
- **Modular design.** Hot-swap and modularized design simplify component maintenance and decrease MTTR (Mean Time To Repair).
- Capacity expansion and parallel redundant operation. Available for "single charger with 2 plugs charging one battery" or "single charger with 2 plugs charging two batteries.
- **High quality.** UL certified by TUV.

Model APSP80V200A-2Q/480UL DC Output Rated Output Power 32kW Rated Output Current 200A/plug Output Voltage Range 30VDC~100VDC/plug Current Adjustable Range 5A~200A/plug Ripple Wave ≤1% Efficiency ≥92% Stable Voltage Precision ≤±0.5%		
Rated Output Power 32kW Rated Output Current 200A /plug Output Voltage Range 30VDC~100VDC/plug Current Adjustable Range 5A~200A/plug Ripple Wave ≤1% Efficiency ≥92% Stable Voltage Precision ≤±0.5%		
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Ripple Wave ≤1% Efficiency ≥92% Stable Voltage Precision ≤±0.5%		
Efficiency ≥92% Stable Voltage Precision ≤±0.5%		
Stable Voltage Precision ≤±0.5%		
Protection Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	ion	
AC Input		
Rated Input Voltage Degree Three-phase Four-wire 480VAC		
Input voltage range 384VAC~528VAC		
Input current range <58A		
Frequency 50Hz~60Hz		
Power factor ≥0.99		
Current distortion ≤5%		
Input Protection Overvoltage, Under-voltage, Overcurrent and lack of phase Protection		
Working Environment		
-20°C~45°C work normoally		
Working Environment Temperature 45°C~65°C reduce output		
Over 65°C Shutdown		
Storage Temperature -40°C~75°C		
Relative Humidity 0~95%		
Altitude ≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993		
Product Safety and Reliability		
Insulation Strength IN-OUT: 2200VDC IN-SHELL: 2200VD OUT-SHELL: 1700VDC		
Dimensions and Weight		
Outline Dimensions(mm) 800(H)x560(W)x430(D)		
Net Weight 85KG		
Protection Class IP20		
Others		
Output Connector REMA plug		
Heat Dissipation Forced Air-cooling		



Lithium battery charger for AGV and AMR



Features • • •





- **High-quality.** Steel-carbon alloy brush with great electrical conductivity, strong mechanical strength, excellent insulation, great heat resistance, and high corrosion resistance, allowing for customization.
- Flexible and smart. Able to charge for AGV with charging ports at the side, at the front or at the bottom. Wireless communication to smartly make AGV chargers to communicate and connect AGV.
- Precise positioning. Infrared positioning in transmitting-receiving, reflection, or diffuse reflection way. High-precision infrared photoelectric sensor.
- Automatic. Under automatic mode, it can charge automatically without being supervised by a person. It also has a manual mode.
- Excellent electrical properties. PFC+LLC soft switching technology with high conversion efficiency and high density of module power.
- **User-friendly and convenient UI.** Manage charging through LCD display +TP+LED+buttons.

Model	AGVC-80V200A-FT
DC Output	
Rated Output Power	16kW
Rated Output Current	200A
Output Voltage Range	30VDC~100VDC
Current Adjustable Range	5A~200A
Peak Noise	≤1%
Voltage Ragulation Accuracy	<±0.5%
Efficiency	Out of load≥50%, When rated, the overall efficiency≥92% Out of load<50%, When rated, the overall efficiency≥99%
Protection	Short ciruit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection
AC Input	
Input Voltage	AC 380V Three-phase Four-wire
Input current range	<36A
Frequency	50Hz~60Hz
(PF)Power Factor	≥0.94
(HDI)Current Distortion	≤5%
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection
Working Environment	
	-20°C~45°C work normoally
Working Environment Temperature	45°C~65°C reduce output
	Over 65°C Shutdown
Storage Temperature	-40°C~75°C
Relative Humidity	0~95%
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993
Product Safety and Reliability	
Jacobski na Channath	IN-OUT: 2800VDC/10mA/1Min IN-SHELL: 2800VDC /10mA/1Min OUT-SHELL: 2800V DC/10mA/1Min
Insulation Strength	IN-OUT: DC 500V>10M Ω IN-SHELL: DC500V>10M Ω OUT-SHELL: DC500V>10M Ω
Dimensions and Weight	
Control Box Dimensions(mm)	655(L)x540(W)x570(H)
Telescopic Box Dimensions(mm)	630(L)x250(W)x580(H)
Net Weight	60KG



Lithium battery charger for AGV and AMR



Features • • •



- **CAN communication.** Communicate with lithium battery BMS to intelligently manage battery charging to ensure fast charging and longer battery life.
- Wide input voltage. Provide battery with stable and reliable charging under unstable power supply.
- Protection. With protection of overcharge, over-voltage, over-current, over-temperature, short circuit, input phase loss, input over-voltage, input under-voltage, lithium battery abnormal charging, and diagnosis and displaying of charging problems.

Model	AGVC-80V200A-FT	
Other		
BMS Communication Method	CAN Communication	
BMS Connection Method	CAN-WIFI or physical contact of CAN modules at AGV and charger	
Dispatching Communication Method	Modbus STA, Modbus AP	
Dispatching Connection Method	Modbus-wifi or Ethernet	
WIFI Bands	2.4G, 4G, 5.8G	
Method of Starting Charging	Infrared, Modbus, CAN-WIFI	
AGV Brush Parameters	Follow AiPower standard or drawings provided by customers	
Structure of Charger	All-in-one, split-type	
Charging Method	Charger Connector Telescoping; AGV moving towards charger to get charged	
Cooling Method	Forced air cooling	
Manual Charging	All-in-one to charge manually with communication or without communication	
Telescopic Stroke of Brush (with telescopic model)	200MM	
TAGV Positioning Distance (with telescopic model)	165MM - 325MM	
Height from AGV Connector Center to the Ground	185MM - 400MM	

Application • • •





Power Module • • •

Mutiple Options

- 1) High power as 20kw
- 2) Output voltage up to 120V

High Performance

- 1) Standby power ≤9W
- 2) High efficiency up to 94%

High Adaptability

- 1) Wide input voltage 285V-475 V
- 2) Working temperature -40°C ~ + 80°C

Convenient and Durable

- 1) Hot swap design
- 2) Anti-corrosion, anti-salt spray and anti-mildew

20kW Power Module

Size: 392mm(D)*289mm(W)*84mm(H)















Cooperation with World Famous Brands















Lithium Batteries of Aipower







Compatible with our battery chargers





Rated Voltage	Regular Options for Rated Capacity	Life Cycles (Full Charge & Discharge)	Communication	Charging Port	IP
25.6V					
48V					
51.2V	205/280/302/346/410/ 460/560/690 Ah	More than 3000 times	CAN	REMA	IP54
76.8V					
80V	150/173/230/280/302 Ah				

NOTE: We offer package solution of lithium batteries and battery chargers. If you need more informatin about our batteries, please refer to our catalog of lithium battery.



Customizable

IP54



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High Protection IP54

5-year Warranty

Warranty



Maintenance-free

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BMS & BTMS

U+

Faster Charging





Memorandum		Memorandum
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