

AP Mini



Low Frequency Pure Sine Wave Inverter/Charger



- Ultra Low THD, Typically 7% Under Full Linear Load (battery low).
- MPPT Solar Charger Controller Available.
- Remote Control Available.
- Battery Temperature Sensing For Increased Charging Precision.
- Auto Gen Start Function For Off Grid System With Generator As Backup Power.

Product Features

- AC Voltage: 120VAC/230VAC.
- DC Voltage: 12VDC/24VDC.
- Remote Control Seletable(RJ11 port/RJ45 port).
- BTS Seletable.
- GFCI Seletable.

Applications



Home Power Supply



Solar Energy Storage



RV



Office Equipment



Engineering Vehicles



Marine

Technical Parameter

AP Mini Series Pure Sine Wave Inverter/Charger						
Inverter Output	Power Rating	600W	1000W		1500W	
	Continuous Output Power	600W	1000W		1500W	
	Surge Rating (20s)	1800W	3000W		4500W	
	Output Waveform	Pure Sine wave / Same as input (Bypass mode)				
	Nominal Efficiency	80%(Peak)				
	Line Mode Efficiency	>95%				
	Power Factor	0.9-1.0				
	Nominal Output Voltage RMS	120Vac or 230Vac				
	Output Voltage Regulation	±10% RMS				
	Output Frequency	50/60Hz ± 0.3Hz				
	Short Circuit Protection	Yes, Current Limit Function (Fault after 1sec)				
	Typical transfer Time	10ms (Max)				
	THD	Typically < 3%(Rated battery level, rated full linear load)				
DC Input	Nominal Input Voltage	12.0Vdc		24.0Vdc		
	Minimum Start Voltage	10.0Vdc		20.0Vdc		
	Low Battery Alarm	10.5Vdc / 11.0Vdc		21.0Vdc / 22.0Vdc		
	Low Battery Trip	10.0Vdc / 10.5Vdc		20.0Vdc / 21.0Vdc		
	High Voltage Alarm & Fault	16.0Vdc		32.0Vdc		
	High DC Input Recovery	15.5Vdc		31.0Vdc		
	Low Battery Voltage Recover	13.0Vdc		26.0Vdc		
	Idle Consumption-Search Mode	<25W when Power Saver On				
Bypass & Protection	Input Voltage Range	Narrow: 100 ~ 135VAC / 194 - 243Vac				
		Wide: 90 ~ 135VAC / 150 ~ 260Vac				
	Input Frequency Range	Narrow: 47-55 ± 0.3Hz for 50Hz, 57-65 ± 0.3Hz for 60Hz				
		Wide: 42-68 ± 0.3Hz for 50Hz / 60Hz				
	Output Voltage	Depends on battery type				
	Charger Breaker Rating (120Vac)	7A	10A		15A	
	Max Charge Rate	20A to 25A + / -5A, depending on models		15A		
	Over Charge Protection Shutdown	15.7V for 12Vdc				
	Battery type	Fast Vdc		Float Vdc		
	Gel U.S.A	14		13.7		
	A.G.M 1	14.1		13.4		
	A.G.M2	14.6		13.7		
	Sealed Lead Acid	14.4		13.6		
	Gel Euro	14.4		13.8		
	Open Lead Acid	14.8		13.3		
	Calcium	15.1		13.6		
	De-sulphation	15.5 for 4hrs				
	Remote Control	Yes.Optional				
	Mechanical Specification	Inverter Dimensions (L*W*H)	325*173*135mm / 12.8*6.8*5.3		362*173*135mm / 14.3*6.8*5.3"	
		Inverter Weight	7.5KG / 16.5lb		11KG / 24.3lb	14KG / 30.8lb
Shipping Dimensions (L*W*H)		425*230*205mm / 16.7*9*8		475*230*205mm / 18.7*9*8		
Shipping Weight		8.5KG / 18.7lb		12KG / 26.5lb	16KG / 35.2lb	
Display		Display				
Standard Warranty		Standard Warranty				

Low Frequency Pure Sine Wave Inverter/Charger



Product Features

- Stabilizing the output AC voltage to a range of 230V $\pm$ 10%.
- Connected with batteries, the AP inverter will function as a UPS with max transfer time of 10ms.
- With all the unique features from the inverter and AVR, it brings you long-term trouble free operation Beyond your expectation.
- Built-in voltage stabilisation (optional).
- Built-in solar controller MPPT (optional).
- AC Voltage: 100-110-120VAC/220-230-240VAC.
- DC Voltage: 12VDC/24VDC/48VDC.
- Remote Control Seletable(RJ11 port/RJ45 port).
- LCD Display Seletable.
- Split Phase Available : $\geq 3KW$, 120/240VAC split phase.
- Support for lithium battery charging (optional).
- BTS Seletable.
- GFCI Seletable.

Applications



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Technical Parameter

AP Pure Sine Wave Inverter/Charger								
Inverter Output	Model	1000W	1500W	2000W	3000W	4000W	5000W	6000W
	Continuous Output Power	1000W	1500W	2000W	3000W	4000W	5000W	6000W
	Surge Rating (20S)	3000W	4500W	6000W	9000W	12000W	15000W	18000W
	Capable of Starting Electric Motor	1HP	1.5HP	2HP	3HP	4HP	5HP	6HP
	Output Waveform	Pure Sine wave / Same as input (Bypass Mode)						
	Nominal Efficiency	>88% (Peak)						
	Line Mode Efficiency	>95%						
	Power Factor	0.9-1.0						
	Nominal Output Voltage rms	100-110-120Vac / 220-230-240Vac						
	Output Voltage Regulation	±10% RMS						
	Output Frequency	50Hz ± 0.3Hz /60Hz ± 0.3Hz						
	Short Circuit Protection	Yes, Current Limit Function (Fault after 1 sec)						
	Typical transfer Time	10ms (Max)						
	THD	<10%						
DC Input	Nominal Input Voltage	12.0Vdc (*2 for 24Vdc, *4 for 48Vdc)						
	Minimum Start Voltage	10.0Vdc						
	Low Battery Alarm	10.5Vdc / 11.0Vdc						
	Low Battery Trip	10.0Vdc / 10.5Vdc						
	High Voltage Alarm & Fault	16.0Vdc						
	High DC Input Recovery	15.5Vdc						
	Low Battery voltage recover	13.0Vdc						
	Idle Consumption-Search Mode	<25 W when Power Saver On						
	Charger	Input Voltage Range	Wide: 90~135VAC / 164-243VAC ; Narrow: 100-135VAC / 194-243VAC ;					
Output Voltage		Depends on battery type						
Charger Breaker Rating		10A	10A	10A	20A	20A	30A	30A
Max Charge Rate		35A/70-90A Max(Charger Current Control)						
Over Charge Protection Shutdown		15.7V for 12Vdc(*2 for 24Vdc, *4 for48Vdc)						
Charger curve(4 stage constant current) 4 Step Digital Controlled Progressive Charge		Battery types (*2 for 24Vdc, *4 for 48Vdc)						
Battery type		Fast Vdc				Float Vdc		
Gel U.S.A		14				13.7		
A.G.M 1		14.1				13.4		
A.G.M2		14.6				13.7		
Sealed Lead Acid		14.4				13.6		
Gel Euro		14.4				13.8		
Open Lead Acid		14.8				13.3		
Calcium		15.1				13.6		
De-sulphation		15.5 for 4hrs						
Remote Control		Yes. Optional						

AP Pure Sine Wave Inverter/Charger								
Bypass& Protection	Input Voltage Waveform	Sine wave (Grid or Generator)						
	Nominal Voltage	120Vac				230Vac		
	Low Voltage Trip	80V / 90V±4%				184V / 154V±4%		
	Low Voltage re engage	90V / 100V±4%				194V / 164V±4%		
	High Voltage Trip	140V±4%				253V±4%		
	High Voltage re engage	135V±4%				243V±4%		
	Max Input AC Voltage	150VAC				270VAC		
	Nominal Input Frequency	50Hz or 60Hz (Auto detect)						
	Low Freq Trip	47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz						
	Low Freq re engage	48±0.3Hz for 50Hz, 58±0.3Hz for 60Hz						
	High Freq Trip	55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz						
	High Freq re engage	54±0.3Hz for 50Hz. 64±0.3Hz for 60Hz						
	Output Short circuit protection	Circuit breaker						
	Bypass breaker rating	10A	15A	20A	30A	30A	40A	40A
Transfer switch rating	30amp for UL&TUV				270VAC			
	Max bypass current				40amp			
Mechanical Specification	Mounting	Wall mount						
	Inverter Dimensions(L*W*H)	382*218*179mm		442*218*179mm		598*218*179mm		
	Inverter Weight	16KG	17KG	20KG	24KG	35KG	45KG	45KG
	Shipping Dimensions(L*W*H)	520*315*300mm		580*315*300mm		740*315*300mm		
	Shipping Weight	18KG	19KG	22KG	26KG	37KG	47KG	47KG
	Display	Status LEDs / Status LEDs+LCD						
	Standard Warranty	1 Year						

