Info-Matic Power Sdn Bhd

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UPS Catalogue

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Product of Malaysia
Regional Sales Office in HONG KONG

COMPANY PROFILE

INFO-MATIC POWER SDN BHD

Info-Matic Power Sdn Bhd is a Bumiputera company incorporated in Johor Bahru, Malaysia. Established in 2001, we deliver a wide range of proven products, solutions and services to cater to the ever-demanding market.

Our products and solutions center around the area of Power Protection Equipments, UPS System, battery, inverter, data centre preparation, precision aircond, renewable energy and LED lighting.

Headquartered in Kuala Lumpur, we have extended our reach to other parts in Malaysia through our branch in Johor Bahru, Terengganu, Penang, KLIA and Kuching.

Green Earth, Our Common Family

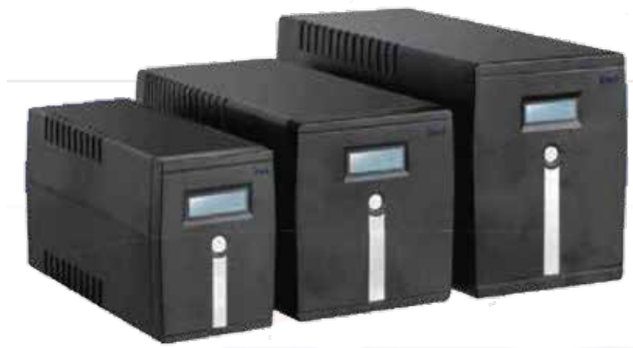
As an enterprise citizen, IMP fully understands that the environment will impact on enterprise's sustainable development and Human being's future living greatly. Therefore, products and services from IMP group are safe and environmental-friendly throughout all life cycle. With environmental responsibilities on shoulder, IMP supplies customer with ECO-Product, and provides staff with a healthy and safe working environment. In order to make greater contributes to the sustainable development of both enterprise and society, IMP commits itself to reduce environmental pollution by variety ways.

IMP MANUFACTURE BASE




Accumulator cell production workshop glimpse

MICROPOWER SERIES



MICROPOWER SERIES

400 ~ 2000VA

Features

- AVR boost and buck
- Cold start function
- Smart RS232/USB interface for power management
- Built-in Self-diagnostic function
- Modem/LAN internet protection
- Compatible with generator set （optional）
- LCD or LED panel for option
- Fastest charging capacity
- Auto charging at off mode
- Auto-restart function

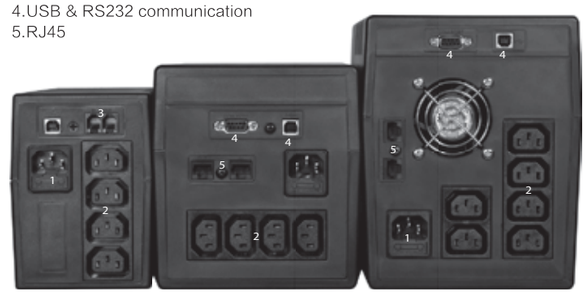
Optional socket

LCD or LED panel for option

Two kinds of color LCD display

LED display

1. AC input
2. Output socket
3. USB & RJ11 communication
4.USB & RS232 communication
5.RJ45



Rear Panel

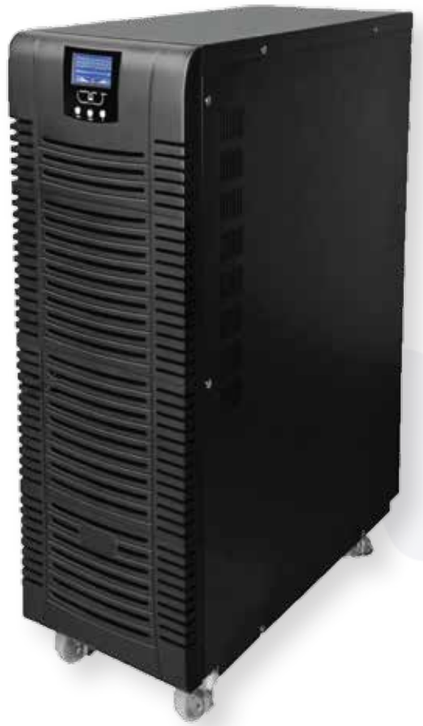
NOVA UPS SYSTEM

Technical Specifications:

	Micro 400	Micro 600	Micro 800	Micro 1000	Micro 1200	Micro 1500	Micro 2000
Capacity (VA/Watts)	400 / 240	600 / 360	800 / 480	1000 / 600	1200 / 720	1500 / 900	2000 / 1200
Nominal input voltage	110/120 Vac or 220/230/240 Vac						
Operating voltage range	81 ~ 145 Vac / 162 ~ 290 Vac						
Operating frequency range	50/60 Hz (± 10%)						
OUTPUT							
Output voltage range (Batt. Mode)	Simulated sine wave at nominal voltage ± 10%						
Frequency range (Batt. Mode)	50 or 60Hz ± 1Hz						
Transfer time	Typical 2~6 ms, 10ms max.						
BATTERY							
Battery type & number	12 V/4.5Ah x 1	12 V/7Ah x 1	12 V/9Ah x 1	12V/7Ah x 2	12 V/7Ah x 2	12 V/9Ah x 2	12 V/9Ah x 2
Typical recharge time	6~8 hours (to 90% of full capacity)						
SYSTEM FEATURES							
	AC Mode (Green LED lighting)				The 5th Green LED lighting (The 1st to 4th green LED lighting to indicate load level) LED1 (green): >100% load level LED2 (green): >75% load level LED3 (green): >50% load level LED4 (green): >25% load level		
	Battery Mode (Amber LED flashing)				The 5st green blinking (The 1st to 4th green LED lighting to indicate battery capacity) LED1 (green): battery voltage > 25V LED2 (green): battery voltage > 23V LED3 (green): battery voltage > 22V LED4 (green): battery voltage > 21V		
	Fault (Red LED lighting)						
Protection	Overload and overcharge protection						
	Battery Mode: Sounding every 10 seconds Low battery: Sounding every second Overload: Sounding every 0.5 second Battery replacement alarm: Sounding every 2 seconds Fault: Continuously sounding						
Communication interface	USB/RS-232 (optional),Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC						
ENVIRONMENTAL							
Operating temperature	0 ~ 40 ℃						
Humidity range	0 ~ 95%(non-condensing)						
Noise level	<40dB (1 meter from surface)						
PHYSICAL							
Dimension DXWXH (mm)	298x101x142			338x149.3x162		380x158x198	
Net weight (kg)	3.55	4.25	4.9	7.8	8	11.1	11.5
STANDARDS							
	IEC/EN62040-1;IEC/EN60950-1						
	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8						

Specifications are subject to change without prior notice.

NOVA
UPS System



Nova series are online UPS from
6kVA to 20kVA

Nova is single phase UPS systems with high performance and high reliability. DSP microprocessors to ensure high quality output power, high input power factor

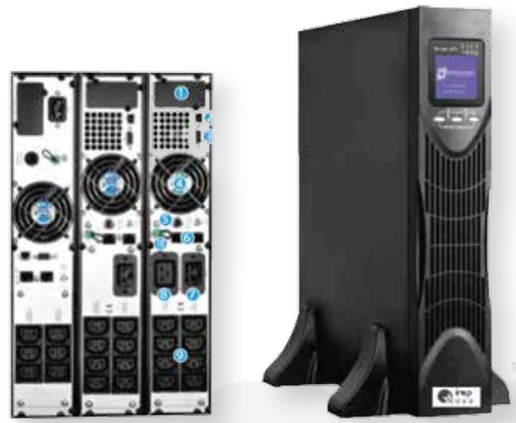
NOVA RT SERIES

NOVA
RT Series

Technical Specifications:

NOVA

Specification								
Model		1106	1106L	1110	1110L	3110L	3115L	3120L
Capacity(kVA/kw)		6/4.8		10/8		10/7	15/10.5	20/14
Input	Voltage	115Vac~300Vac				304Vac~478Vac		
	Phase	1p2w+G				3P4W+G		
	COSΦ	50Hz(60Hz)±5%						
	Waveform	≥0.99						
Output	Voltage	220Vac±1%				220Vac (230Vac)±2%		
	Phase	same with input (line mode).50Hz±0.2Hz(BATTERY MODE)						
	COSΦ	0.8(lag)						
	Waveform	Sine wave						
	Waveform distortion	Linear load<3%				Linear load<3%	Linear load<4%	
		Non linear load<6%				Non linear load<6%	Non linear load<5%	
Overload protection		>125% - 1 MIN >150% - 10ms				>130% - 200ms >150% - 10ms		
Transfer time		0ms						
Battery		Sealed lead acid maintenance-free battery				Sealed lead acid maintenance-free battery		
External battery voltage		12v7AH x 16	19Vdc	12v7AH x 16	192Vdc	192Vdc		
Ambient	Temperature	0~43℃				0~40℃		
	Humidity	0~95%				20~95%		
Communication		9Pin D type connector (RS232) or intelligent slot for SNMP adaptor (optional)						
Size(WxDxH) mm		250x500x620	240x500x460	250x500x620	240x500x460	260x560x717		
Weight(kg)		58	18	68	20	25		



rear panel

rack - tower convertible

Rack or Tower in single UPS Double Conversion On-Line UPS Pure Sine Wave Output SISO, 1:1 phase, 0.9 PF 1000-3000 VA (900-2700W)

1. Intellient slot (SNMPcard,Dry contact etc.)
2. USB port
3. RS232 port
4. Fan
5. Input breaker
6. RJ45 surge Suppress port
7. Input slot
8. Large current output slot
9. Output slots Including two sements
10. EPO

Technical Specifications:

NOVA
RT Series

MODEL	RT 1101	RT 1102	RT 1103
Capacity (VA/Watts)	1000 / 900	2000 / 1800	3000 / 2700
INPUT			
Nominal voltage	220 / 230 / 240Vac		
Operating voltage range	200~290Vac		
Operating frequency range	50Hz/60Hz±10%		
Power factor	⩾0.99		
Max. input current	4.9A	9.5A	14.2A
OUTPUT			
Output voltage	200/208/220/230/240Vac±1%		
Output frequency	Synchronized with the utility on AC mode; 50Hz/60Hz±0.2% on battery mode		
Crest factor	3:1		
Harmonic distortion (THDv)	<3% (linear load)		
Efficiency	>89%		
	>94% (high efficiency mode)		
BATTERY			
Battery voltage	36Vdc	72Vdc	72Vdc
Battery type & number	12V/7Ah/9Ah×3	12V/7Ah/9Ah×6	12V/9Ah×6
Backup time	Estimated remaining time displayed on the LCD		
Typical recharge time	5 hours (to 90% of full capacity)		
Charge current	1.0A	1.0A	1.0A
SYSTEM FEATURES			
Transfer time	1. 0ms (Mains Battery) 2. <4ms (Mains Bypass)		
Overload capability	30s at 100%~150% ;300ms at>150%		
LCD indication	Load/Battery/Input/Output/Operating Mode Information		
Audible alarm	1. Sounding every 4 seconds (Battery Mode) 2. Sounding every second (Low Battery) 3. Sounding twice every second (Overload) 4. Continuously Sounding (Fault)		
Communication interface	RS232,USB,SNMP (optional)		
ENVIRONMENTAL			
Operating temperature	0~40		
Humidity range	0~95% (non-condensing)		
Altitude	<1500m		
Noise level	<45dB		
PHYSICAL			
Dimension D×W×H (mm)	430×440×86.5	690×440×86.5	
Net weight (kg)	13	24.6	25.5
STANDARDS			
Safety	IEC/EN62040-1;IEC/EN60950-1		
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4; IEC61000-4-5;IEC61000-4-6;IEC61000-4-8		

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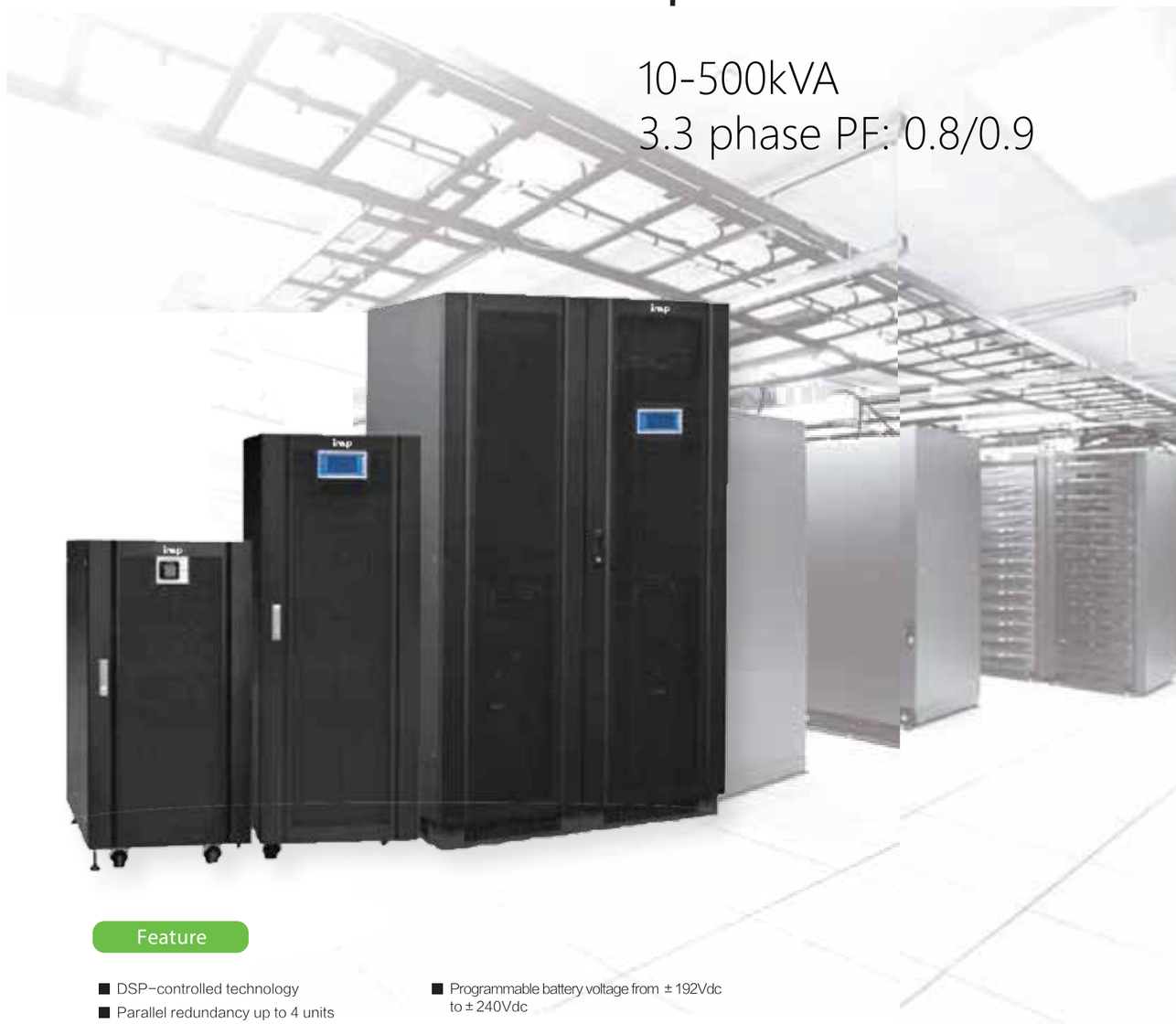
SUPERNOVA UPS

SUPERNOVA

Supernova Series

10-500kVA
3.3 phase PF: 0.8/0.9



Feature

- DSP-controlled technology
- Parallel redundancy up to 4 units
- Wide input voltage and frequency windows
- Easy-to-operate LCD display
- High power density up to 500kVA for space saving
- Unity power factor and low input distortion
- Output power factor at 0.8(0.9 optional)
- ECO mode for energy saving
- Common or separate battery
- Programmable battery voltage from ±192Vdc to ±240Vdc
- Intelligent charge modes with smart charge current adjustment
- Megatec/Mod Bus protocol supported
- Powerful charger built in
- Versatile communication interfaces provided for different applications
- Superior overload capability
- Programmable control and monitoring oftwar

Technical Specifications:

SUPERNOVA

Model		33010	33015	33020	33030	33040	33060	33080
Capacity (VA/Watts)		10k/9k	15k/13.5k	20k/18k	30k/27k	40k/36k	60k/54k	80k/72k
INPUT								
Nominal voltage		380/400/415Vac, (3Ph+N+PE)						
Operating voltage range		208~478Vac						
Operating frequency range		40~70Hz						
Power factor		≥0.99						
Harmonic distortion (THDi)		2%(100% nonlinear load)						
Bypass voltage range		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: −45% (optional −20%,−30%) Frequency protection range: ±10%						
Generator input		Support						
OUTPUT								
Output voltage		380/400/415Vac, (3Ph+N+PE)						
Voltage regulation		±1%						
Power factor		0.8/0.9(Customized)						
Output frequency		1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency(optional) 2.Battery Mode: (50/60±0.2%)Hz						
Crest factor		3:1						
Harmonic distortion (THDv)		⩽2% with linear load ⩽5% with non linear load						
Efficiency		94.5%		95%				
BATTERY								
Battery voltage		Standard unit: ±216Vdc; Long run unit Optional Voltage: ±192V\±204V\±216V\±228V\±240Vdc						
Battery type		12V/38Ah (standard unit)						
Charge Current(A) (charge current can be set according to battery capacity installed)		5.7A (Max./Standard unit) 6.0A (Max./Long run unit)				12A (Max.)		18A (Max.)
SYSTEM FEATURES								
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms						
Overload	Line Mode	Load⩽110%: last 60min,⩽125%: last 10min,⩽150%: last 1min,⩾150% turn to bypass mode immediately						
	Bat. Mode	Load⩽110%: last 10min,⩽125%: last 1min,⩽150%: last 5S,⩾150% shut down UPS immediately						
Short Circuit		Hold Whole System						
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately						
Low battery voltage		Alarm and Switch off						
Self-diagnostics		Upon Power On and Software Control						
EPO (optional)		Shut down UPS immediately						
Battery		Advanced Battery Management						
Nose Suppression		Complies with EN62040-2						
Audible & Visual		Line Failure, Battery Low, Overload, System Fault						
Status LED & LCD display		Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault						
Reading on the LCD display		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature						
Communication interface		RS232,RS485,Parallel,Intelligent slot,Relay card(optional),SNMP card(optional)						
ENVIRONMENTAL								
Operating temperature		0~40℃						
Storage temperature		−25~55℃						
Humidity range		0~95% (non condensing)						
Altitude		< 1500m						
Noise level		<55dB						
PHYSICAL								
Dimension D×W×H (mm)		780×600×1200						
Net weight (kg)		S:598 H:129	S:600 H:131	S:602 H:133	S:603 H:134	170	172	199
STANDARDS								
Safety		IEC/EN62040-1,IEC/EN60950-1						
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						

Specifications are subject to change without prior notice.

Technical Specifications:

SUPERNOVA

Model		33100	33120	33160	33200	33300	33400	33500
Capacity (VA/Watts)		100k/90k	120k/108k	160k/144k	200k/180k	300k/270k	400k/360k	500k/450k
INPUT								
Nominal voltage		380/400/415Vac, (3Ph+N+PE)						
Operating voltage range		208~478Vac						
Operating frequency range		40~70Hz						
Power factor		⩾0.99						
Harmonic distortion (THDi)		3%(100% nonlinear load)						
Bypass voltage range		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: −45% (optional −20%,−30%) Frequency protection range: ±10%						
Generator input		Support						
OUTPUT								
Output voltage		380/400/415Vac, (3Ph+N+PE)						
Voltage regulation		±1%						
Power factor		0.8/0.9(Customized)						
Output frequency		1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency(optional) 2.Battery Mode: (50/60±0.2%)Hz						
Crest factor		3:1						
Harmonic distortion (THDv)		⩽2% with linear load ⩽5% with non linear load						
Efficiency		95%						
BATTERY								
Battery voltage		Standard unit: ±216Vdc; Long run unit Optional Voltage: ±192V\±204V\±216V\±228V\±240Vdc						
Charge Current(A) (charge current can be set according to battery capacity installed)		24A(Max.)		36A(Max.)	50A(Max.)	80A(Max.)	100(Max.)	130A(Max.)
SYSTEM FEATURES								
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms						
Overload	Line Mode	Load⩽110%: last 60min,⩽125%: last 10min,⩽150%: last 1min,⩾150% turn to bypass mode immediately						
	Bat. Mode	Load⩽110%: last 10min,⩽125%: last 1min, ⩽150%: last 5S,⩾150% shut down UPS immediately				Load⩽110%: last 60min,⩽125%: last 10min, ⩽150%: last 1min,⩾150% shut down UPS immediately		
Short Circuit		Hold Whole System						
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately						
Low battery voltage		Alarm and Switch off						
Self-diagnostics		Upon Power On and Software Control						
EPO (optional)		Shut down UPS immediately						
Battery		Advanced Battery Management						
Nose Suppression		Complies with EN62040-2						
Audible & Visual		Line Failure, Battery Low, Overload, System Fault						
Status LED & LCD display		Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault						
Reading on the LCD display		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature						
Communication interface		USB,RS232,RS485,Parallel,Intelligent slot,Relay card(optional),SNMP card(optional)						
ENVIRONMENTAL								
Operating temperature		0~40℃						
Storage temperature		−25~55℃						
Humidity range		0~95% (non condensing)						
Altitude		<1500m						
Noise level		70dB				73dB		
PHYSICAL								
Dimension D×W×H (mm)		780×600×1600			850×600×1600	850×600×2000	850×1200×2000	
Net weight (kg)		288	290	371	380	575	815	860
STANDARDS								
Safety		IEC/EN62040-1,IEC/EN60950-1						
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						

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EMPOWER UPS

EMPOWER
Modular UPS System

Empower Cabinet (EC)
6~1560kVA

1:1 EC1106 / EC1110
3:1 EC3106 / EC3110
3:3 EC3310 / EC3315 / EC3320 / EC 3325 /
EC3330 / EC3340

Empower Module (EM)

Technical Specifications:

EMPOWER

MODEL		EC33250-25	EC3390-30	EC33150-30	EC33200-40	EC3320-40	EC33400-40	EC33520-40	EC33800-40	EC331560-40
Capacity (VA/watts)	EC cabinet	250k / 225k	90k / 81k	150k / 135k	200k / 180k	320k / 2.88k	400k / 360k	520k / 468k	800k / 720	1560k / 1404k
	EM module	25k / 22.5k	25k / 22.5k, 30k / 27k		40k / 36k					
INPUT										
Nominal voltage		380/400/415Vac, (3Ph+N+PE)								
Operating voltage range		208~478Vac								
Operating frequency range		40~70Hz								
Power factor		≥0.99								
ByPass voltage range		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V+20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency protection range: ±10%								
Harmonic distortion (THDi)		3% (100% nonlinear load)								
Generator input		Support								
OUTPUT										
Output voltage		380/400/415Vac, (3Ph+N+PE)								
Voltage regulation		±1%								
Power factor		0.9								
Output frequency		1.Line Mode: ±1%、±2%、±4%、±5%、±10% of the rated frequency (optional) 2.Battery Mode: (50/60±0.1%)Hz								
Crest factor		3:1								
Harmonic distortion (THDv)		≤2% with linear load ≤5% with non linear load								
Efficiency		95.0%								
BATTERY										
Battery voltage		±192\±204\±216\±228\±240Vdc; battery quantity(optional)								
Charge Current	UPS cabinet	60A (Max.)	30A(Max.)	50A(Max.)	100A(Max.)		130A (Max.)	200A (Max.)	260A (Max.)	390A (Max.)
	EM module	6A (Max.)	25kVA:6A (Max.) / 30kVA:10A (Max.)		10A (Max.)					
Backup time		Depends on the capacity of external batteries								
SYSTEM FEATURES										
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms								
Overload	Line Mode	Load≤110%: last 60min,≤125%: last 10min,≤150%: last 1min,≥150% turn to bypass mode immediately								
	Bat. Mode	Load≤110%: last 10min,≤125%: last 1min,≤150%: last 1s, ≥150% shut down UPS immediately			Load≤110%: last 60min,≤125%: last 10min,≤150%: last 1min, ≥150% shut down UPS immediately					
	Bypass Mode	Breaker (25kVA:40A)	Breaker (25kVA:40A / 30kVA:60A)		40kVA:95A					
Short circuit		Hold whole system								
Nose suppression		Complies with EN62040-2								
Communication interface		1. UPS cabinet : RS232, RS485, Dry Contact, Intelligent slot x 2(SNMP card,Relay card optional) 2. HPM series UPS module: RS232								
ENVIRONMENTAL										
Operating temperature		0~40°C								
Storage temperature		-25~55°C								
Humidity range		0~95% (non condensing)								
Altitude		<1500m								
Noise level		<70dB				<73dB				
PHYSICAL										
Dimension	UPS cabinet	600×1100×2000	600×840×1400		600×1100×2000	1200×860×2000		1800×860×2000	3000×860×2000	4800×1100×2000
D×W×H (mm)	HPM module	443x580x131 (3U)								
Net weight (Kg)	UPS cabinet	290	158	170	307	750	860	1300	1810	2800
	HPM module	32	25kVA/32; 30kVA/33.5			34				
STANDARDS										
Safety		IEC/EN62040-1,IEC/EN60950-1								
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 , IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4 IEC 50121-1, 50121-2, 50121-3, 50121-4 IEC 6240-1, 6240-2, 60240-3 EN 50121-1, 50121-2, 50121-3, 50121-4, 50121-5 : 2017 EN 50121-1, 50121-2, 50121-3, 50121-4 : 2016 ,EN 55022: 2010+AC: 2011, EN 61000-6-3:2007+A1:2011+AC:2012, EN 55024: 2010, EN 61000-6-1:2007								

Specifications are subject to change without prior notice.

Technical Specifications:

MODEL		EC1130-06	EC1150-10	EC3130-60	EC3150-10	EC31100-10	EC3360-20	EC33100-20	EC332
Capacity (VA/watts)	EC cabinet	6~30k / 4.8~24k	6~50k / 4.8~40k	6~30k / 4.8~24k	6~50k / 4.8~40k	6~100k / 4.8~80k	10~60k / 9~54k	10~100k / 9~90k	10~200k / 9~180k
	EM module	6k / 4.8k, 10k / 8k					10k / 9k, 15k / 13.5k, 20k / 18k		
INPUT									
Nominal voltage		220/230Vac		380/400Vac (3Ph+N+PE)or 220/230Vac			380/400/415Vac, (3Ph+N+PE)		
Operating voltage range		120~276Vac		208~478Vac or 120~276Vac			208~478Vac		
Operating frequency range		40~70Hz							
Power factor		≥0.99							
Bypass voltage range		Max.voltage: 220V +25%(optional +10%,+15%,+20%) 230V 20% (optional +10%,+15%) 240V 15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency protection range: ±10%							
Harmonic distortion (THDi)		5%(100% non-linear load)					2%(100% nonlinear load)		
Generator input		Support							
OUTPUT									
Output voltage		220/230Vac					380/400/415Vac, (3Ph+N+PE)		
Voltage regulation		±1%							
Power factor		0.85					0.9/1 (Customized)		
Output frequency		1.Line Mode: ±1%、±2%、±4%、±5%、±10% of the rated frequency (optional) 2.Battery Mode: (50/60±0.1%)Hz							
Crest factor		3:1							
Harmonic distortion (THDv)		≤2% with linear load ≤5% with non linear load							
Efficiency		93.5%					95.5%		
BATTERY									
Battery voltage		±96\±108\±120Vdc; battery quantity(optional)					±192\±204\±216\±228\±240Vdc; battery quantity(optional)		
Charge Current	UPS cabinet	30A (Max.)	60A (Max.)	30A (Max.)		60A (Max.)	18A (Max.)	30A (Max.)	60A (Max.)
	EM module	6A (Max.) (charge current can be set according to battery capacity installed)							
Backup time		Depends on the capacity of external batteries							
SYSTEM FEATURES									
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms							
Overload	Line Mode	Load≤110%: last 60min,≤125%: last 10min,≤150%: last 1min,≥150% turn to bypass mode immediately							
	Bat. Mode	Load≤110%: last 30S,≤125%: last 1S,≤150%: last 200ms,≥150% shut down UPS immediately					Load≤110%: last 10min,≤125%: last 1min, ≤150%: last 1S,≥150% shut down UPS immediately		
	Bypass Mode	Breaker (6kVA:40A / 10kVA:60A)					Breaker (10kVA: 20A / 15kVA: 32A / 20kVA:40A)		
Short circuit		Hold whole system							
Nose suppression		Complies with EN62040-2							
Communication interface		1. UPS cabinet : RS232, RS485, Dry Contact, Intelligent slot x 2(SNMP card,Relay card optional) 2. HPM series UPS module: RS232							
ENVIRONMENTAL									
Operating temperature		0~40℃							
Storage temperature		-25~55℃							
Humidity range		0~95% (non condensing)							
Altitude		<1500m							
Noise level		<55dB				<65dB			
PHYSICAL									
Dimension	UPS cabinet	840×600×1400	840×600×2000	840×600×1400		840×600×2000	840×600×1400		1100×600×2000
D×W×H (mm)	HPM module	443x580x131 (3U)							
Net weight (Kg)	UPS cabinet	138	150	138	150	213	149	152	290
	HPM module	6kVA/23; 10kVA/25					10kVA/26; 15kVA/30; 20kVA/31		
STANDARDS									
Safety		IEC/EN62040-1,IEC/EN60950-1							
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 , IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4 IEC 50121-1, 50121-2, 50121-3, 50121-4 IEC 6240-1, 6240-2, 60240-3 EN 50121-1, 50121-2, 50121-3, 50121-4, 50121-5 : 2017 EN 50121-1, 50121-2, 50121-3, 50121-4 : 2016 ,EN 55022: 2010+AC: 2011, EN 61000-6-3:2007+A1:2011+AC:2012, EN 55024: 2010, EN 61000-6-1:2007							

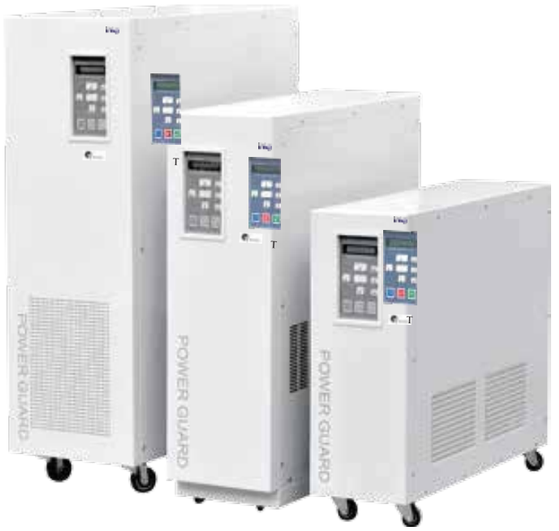
Specifications are subject to change without prior notice.

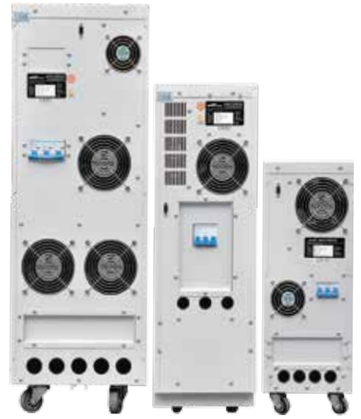
AVALANCHE SERIES

Avalanche Series

1kVA to 15kVA
1:1 phase, SISO

Control Panel





Rear Panel

1.RS232 port
2.FAN
3.Input breaker
4.Connection box
5.Entrance hole
6.Active wheel

Features

High reliability design

·Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, low distortion and without power fluctuation interference, providing the load with more comprehensive protection.

Strong protection for load

·Built-in isolation transformer, strong anti-interference ability, provides more compre hensive protection.

Wide input range

Wide input voltage range up to :165～275Vac, avoid frequently switching to battery mode, which adapt to the areas with harsh environ ment.

Wide input frequency range, ensure all types of fuel generators connected work stable.

Optimization of high-performance battery

·Advanced floating switching and charging technology maximums the activation of the battery, thus saves the charging time and extends the battery life.

Battery cold start function

·The UPS can be start directly by battery group when no utility access in, which meets the emergent needs of user.

·Strong cold start ability, which can do the cold start operation when full load.

Comprehensive and reliable protection

·Self-diagnosis function before start-up, avoid the risks that the failure may lead to.

· The multi-protections such as overload short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability.

·Built-in static electronic bypass switch, when UPS fails, it can transfer to bypass mode and continue to provide power for load by AC.

·DC start function. The UPS can be started directly without AC, which meet the emergent needs of the user.

User-friendly network management

·Communication with computer can be realized by RS232 with corresponding monitoringsoftware. The various parameters can be shown on the communication interface.

·External SNMP adapter. The UPS with remote network management capability can provide real-time data for communication and manage ment through a variety of network manage ment systems.

Technical Specifications:

MODEL	T1101	T1102	T1103	T1104	T1106	T1108	T1110	T1112	T1115
Capacity (VA/Watts)	1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	4kVA/3.2kW	6kVA/4.8kW	8kVA/6.4kW	10kVA/8kW	12kVA/9.6kW	15kVA/12kW
INPUT									
Nominal voltage	220/230 Vac								
Operating voltage range	165~275 Vac								
Operating frequency range	50/60 Hz (±5%)								
Power factor	0.97 (with filter)								
Max. input current(A)	6	10	14	24	34	45	56	65	80
OUTPUT									
Output voltage	220 Vac (±0.5%) / 230 Vac (±0.5%)								
Output frequency	50/60 Hz (±0.5%)								
Crest factor	3:1								
Efficiency	1~8kVA: 85% online 10~15kVA: 90% online								
Harmonic distortion (THD)	<1.5%(linear load)								
BATTERY									
Battery voltage	48Vdc or 192Vdc			192Vdc					
SYSTEM FEATURES									
Transfer time	0 ms (Line mode0 - Battery mode)								
Overload	>125% : 1min, >150%: 200ms								
Communication interface	RS232, SNMP (optional), Dry contact (optional)								
ENVIRONMENTAL									
Operating temperature	0~40 C								
Storage temperature	-25 C~55 C								
Humidity range	0~95% (non-condensing)								
Altitude	<1500m								
Noise level	<55dB								
PHYSICAL									
Dimension W×D×H (mm)	200×608×538 (48Vdc/Battery) 230×580×720 (192Vdc/Battery)			230×580×720		305×585×864			409× ×1044
Net weight (kg)	44/45	55/54	62/54	57	63	92	100	125	180
STANDARDS									
Safety	IEC/EN62040-1; IEC/EN60950-1								
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8								

Specifications are subject to change without prior notice.

valanche Series

LOW FREQUENCY ISOLATIONS TRANSFORMER INDUSTRIAL DESIGN

10kVA to 4800kVA

Features

On-Line Double Conversion Topology

Pure sine wave output to ensure our loads is protected from all eletrical disturbances.

No tranfer time, uninterruptible supply for all types of loads

Full DSP Control

Full DSP control avoids the risks caused by analog devices failure and makes the control system more stable and reliable.

High Power Factor

- The output power factor up to 0.9, Green Power
- The input power factor 0.98 with filter will improve the efficiency, reduce the harmonic and lower the UPS running cost

Wide Input Range

- AC input voltage range (380Va / 400Vac / 415Vac (-25%/+20%)
- Input frequency ranging from 45Hz to 65Hz, ensures stability of UPS while generator connected

Technical Specifications:

MODEL	AV310	AV320	AV330	AV340	AV360	AV380
Capacity (VA/Watts)	10kVA / 9kW	20kVA / 18kW	30kVA / 27kW	40kVA / 36kW	60kVA / 54kW	80kVA/ 72kW
INPUT						
Operating voltage range	380/400/415Vac (380-25%415+20%), (3Ph+N+PE)					
Operating frequency range	50/60Hz (±5Hz)					
Power factor	>0.97(with filter)					
OUTPUT						
Output voltage	380/400/415Vac (±1%)					
Output frequency	50/60Hz (±0.05%)					
Harmonic distortion (THD)	<3% (linear load)					
Crest factor	3:1 (Max.)					
Efficiency	>89%	>90%	>91%		>92%	
BYPASS						
Rated voltage	380/400/415Vac					
Rated frequency	50/60Hz					
Voltage protection range	Upper limit: +20% (+10%,+15%,+20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)					
Frequency protection range	±10% (±2.5%, ±5%,±10%, ±20% adjustable)					
DC CHARACTERISTIC						
Battery voltage	384Vdc					
SYSTEM FEATURES						
Transfer time	0ms (Line mode ⊠⊠ Battery mode)					
Overload	110%/60min ,125%/10min ,150%/1min					
LED display	Input, Inverter, Bypass, Battery, Output, Status					
LCD display	I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record					
Communication interface	Dry contact, RS232, RS485, SNMP card (Optional)					
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor					
ENVIRONMENTAL						
Operating temperature	0～40⊠					
Storage temperature	-25⊠～55⊠					
Humidity range	0～95% (non-condensing)					
Altitude	<1500m					
Noise level	<60dB			<65dB		
PHYSICAL						
Dimension W×D×H (mm)	570×800×1195			880×760×1600		
Net weight (kg)	217	273	316	330	483	525
Shipping weight (kg)	272	328	371	385	553	595
STANDARDS						
Safety	IEC/EN62040-1; IEC/EN60950-1					
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4 IEC61000-4-5; IEC61000-4-6; IEC61000-4-8					

Specifications are subject to change without prior notice.

Technical Specifications:

MODEL	AV3100	AV3120	AV3160	AV3200	AV3300	AV3400	AV3500	AV3600	AV3800
Capacity (VA/Watts)	100kVA / 90kW	120kVA / 108kW	160kVA / 144kW	200kVA / 180kW	300kVA / 270kW	400kVA / 360kW	500kVA / 450kW	600kVA / 540kW	800kVA / 720kW
INPUT									
Operating voltage range	380/400/415Vac (-25%/+20%), (3Ph+N+PE)								
Operating frequency range	50/60Hz (±5Hz)								
Power factor	>0.97(with filter)								
OUTPUT									
Output voltage	380/400/415Vac(±1%)								
Max. output current	152A	182A	243A	304A	456A	608A	760A	912A	1216A
Output frequency	50/60Hz (±0.05%)								
Harmonic distortion (THD)	<2% (linear load)								
Crest factor	3:1 (max)								
Efficiency	>92%	>92%	>92%	>92.5%	>93%	>94%	>95%	>95%	>96%
BYPASS									
Rated voltage	380/400/415Vac								
Rated frequency	50/60Hz (auto-sensing)								
Voltage protection range	Upper limit: +20% (+10%,+15%,+20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)								
Frequency protection range	±10% (±2.5%, ±5%,±10%, ±20% adjustable)								
DC CHARACTERISTIC									
Battery voltage	384Vdc						480Vdc		
SYSTEM FEATURES									
Transfer time	0ms (Line mode Battery mode)								
Overload	110% for 60min ,125% for 10min ,150% for 1min								
LED display	Input, Inverter, Bypass, Battery, Output, Status								
LCD display	I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, settings								
Communication interface	Dry contact, RS232, RS485, SNMP card (Optional)								
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor								
ENVIRONMENTAL									
Operating temperature	0～40								
Storage temperature	-25 ～55								
Humidity range	0～95% (non-condensing)								
Altitude	<1500m								
Noise level	<65dB				<70dB				
PHYSICAL									
Dimension W×D×H (mm)	1160×805×1600 (6p) 1520×830×1600 (12p)		1400×945×1900 (6p) 1640×1040×1900 (12p)		1640×1040×1900 (6p) 1760×1040×1900 (12p)		2800×1040×1900 (12p)		3900×1100×1950 (12p)
Net weight (kg)	800/1100	903/1250	1219/1774	1425/1893	1780/2580	2050/3050	3700	4500	6400
Shipping weight (kg)	890/1190	993/1293	1349/1954	1555/2073	1950/2850	2200/3300	3950	4750	6700
STANDARDS									
Safety	IEC/EN62040-1; IEC/EN60950-1								
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4 IEC61000-4-5; IEC61000-4-6; IEC61000-4-8								

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