



Overload Protection	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;	10s@110~150% load ; 5s@≥150% load ; 5s@200% load ;
Saving Mode Power Consumption(W)	<6	<6	<8	<8	<10	<10	<15	<15	<15
Recommand Battery Type	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid	sealed lead acid or GEL/AGM lead-acid
Recommand Battery Capacity ( min, AH )	100	100	100	100	200	100	200	200	200
Typical Amperage(A)	33	20	66	40	100	50	66	87	
Recommand Battery Wiring Number	1*10AWG/5mm2	1*14AWG/2mm2	1*6AWG/14mm2	1*6AWG/14mm2	1*4AWG/22mm2	1*8AWG/8mm2	1*4AWG/22mm2	1*4AWG/22mm2	1*4AWG/22mm2
Torque value( Nm)	2~3	2~3	2~3	2~3	2~3	2~3	2~3	2~3	2~3
Recommand Battery Parallel Number	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4
Separate DC over-current protector or disconnect device between battery and inverter	Requested	Requested	Requested	Requested	Requested	Requested	Requested	Requested	Requested
Fuses spec for over-current	40A, 32VDC	40A, 32VDC	40A, 32VDC	40A, 32VDC	40A, 32VDC	40A, 32VDC	40A, 32VDC	200A, 58VDC	200A, 58VDC
Quantity pieces	3	3	4	4	6	6	1	1	1

### PARALLEL MODE(OPTION)

Can be paralleled	No	No	No	No	No	No	No	Yes	Yes
To be single phase	--	--	--	--	--	--	--	Yes	Yes
Quantity@single phase	--	--	--	--	--	--	--	up to 6	up to 6
To be three phase	--	--	--	--	--	--	--	Yes	Yes
Quantity@three phase	--	--	--	--	--	--	--	3 to 6	3 to 6
Accessories	--	--	--	--	--	--	--	Yes	Yes

### MONITORING SYSTEM

Dry contact ( +/- / GND )	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC
RS232	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP Card	Option	Option	Option	Option	Option	Option	Option	Option	Option
MODBUS Card	Option	Option	Option	Option	Option	Option	Option	Option	Option
PC monitoring software	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote monitoring system	Option	Option	Option	Option	Option	Option	Option	Option	Option

### ENVIRONMENT

Relative humidity (non-condensing)	0% to 95%	0% to 95%	0% to 95%	0% to 95%	0% to 95%	0% to 95%	0% to 95%	0% to 95%	0% to 95%
Altitude(m)	up to 2000	up to 2000	up to 2000	up to 2000	up to 2000	up to 2000	up to 2000	up to 2000	up to 2000
Operating Temperature(°C)	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
Storage Temperature(°C)	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60

### Safety & EMC

Certification	CE	CE	CE	CE	CE	CE	CE	CE	CE	
Safety Standards	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	LVD 2006/95/EC ; IEC/EN 62109-1/2 ; IEC/EN 60950 ;	
EMC Standards	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;	2004/108/EC ; EN 55022 ; EN 55024 ; IEC 61000-6-1/2/3/4 ; IEC 61000-3-2/3 ;
AC/Solar Charger priority	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	EN 55024:2010	via LCD setting	
Battery charging current	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	via LCD setting	
Smart battery charger design	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Over/Under voltage protection	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Over/Under frequency protection	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Overload protection	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Over temperature protection	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Short circuit protection	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Auto restart	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	
Cold start function	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	Intergated	

### MECHANICS

Dimension, W x H x D , mm	272 x 355 x 100	272 x 355 x 100	272 x 355 x 100	272 x 355 x 100	272 x 355 x 100	272 x 355 x 100	272 x 355 x 100	295 x 540x 140	295 x 540x 140
Weight (kg)	6.5	6.5	7.0	7.0	8.0	8.0	8.0	13.0	13.0
Recommended installation	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically	Mounting vertically

### BASIC TOPOLOGY

Block diagram	Note	
Utility	grid or generator	
Solar	PV array	
Battery	Sealed lead acid or GEL/AGM lead-acid	
Load	Home appliance	
Solar charger	MPPT integrated	
Parallel	For 4K/5K parallel function	

NOTE: Version for datasheet subject to change without further notice.