



Outdoor ESS Cabinet

Hybrid System

20/30/40/50kW +98/118kWh

Product Features

 **SiC Technology,**
Max. Efficiency 98.6%

 **Full Power Range**
Coverage (20-50kW)

 **Solar & Storage**
Design

 **Supports parallel**
of 1MWh system

 **Independent generator**
interface,supports
intelligent start-stop

 **IP55 for Outdoor**
Installation

 **Intelligent**
BMS & EMS

 **Grid-Support &**
Grid-Forming

 **PERFLUORO fire**
extinguishing system

Model Name	YW20K-98-TH	YW30K-98-TH	YW40K-98-TH	YW50K-98-TH	YW20K-118-TH	YW30K-118-TH	YW40K-118-TH	YW50K-118-TH
DC Data								
Battery Type	LiFePO ₄				LiFePO ₄			
Battery Energy	98.88kWh/1P30S				118.66kWh/1P30S			
Battery Voltage Range	420Vdc ~ 540Vdc				504Vdc ~ 648Vdc			
Rated Voltage	480V				576V			
Pack	206Ah/LFP 3.2V				206Ah/LFP 3.2V			
Cycle Life	≥ 6000@0.5C 25°C				≥ 6000@0.5C 25°C			
Communication	CAN				CAN			
PCS Parameters								
Rated Output Power	20KW	30KW	40KW	50KW	20KW	30KW	40KW	50KW
Max. Rated Output Power	20KW	33KW	44KW	55KW	20KW	33KW	44KW	55KW
Peak Efficiency	98.2%	98.6%	98.6%	98.6%	98.2%	98.6%	98.6%	98.6%
Rated Grid Voltage	3L / N / PE 400VAC							
Grid Frequency	50/60Hz							
Output THDi	<3%							
PV String Input Data								
Max. DC Input Power	30000W	45000W	60000W	75000W	30000W	45000W	60000W	75000W
MPPT Voltage Range	180V~960V	150V~850V	150V~850V	150V~850V	180V~960V	150V~850V	150V~850V	150V~850V
Start-up Voltage	200V	180V	180V	180V	200V	180V	180V	180V
Rated DC Input Voltage	600V	600V	600V	600V	600V	600V	600V	600V
No.of MPPT Trackers/ No.of String Per MPPT Tracker	2/2+2	4/2+2+2+2	4/2+2+2+2	4/2+2+2+2	2/2+2	4/2+2+2+2	4/2+2+2+2	4/2+2+2+2
General Data								
Dimensions (W * D * H)	1100*1000*2100 mm							
Weight of the Whole System	1200 KG(BATT)+35KG/88KG(INVERTER)							
Protection Level	IP55							
Operating Temperature Range	-20°C ~50°C							
Relative Humidity	0 ~ 95% (Non-Condensing)							
Warranty	10 Years							
Parallel	Max. 50-500kW/1MWh							
Cooling	Forced Air-Cooling							
Fire Protection	Aerosol Fire Protection							
Certifications	EN62109, EN62477, IEC61000, VDE4105, EN50549							

Typical application cases

