



AI Intelligence

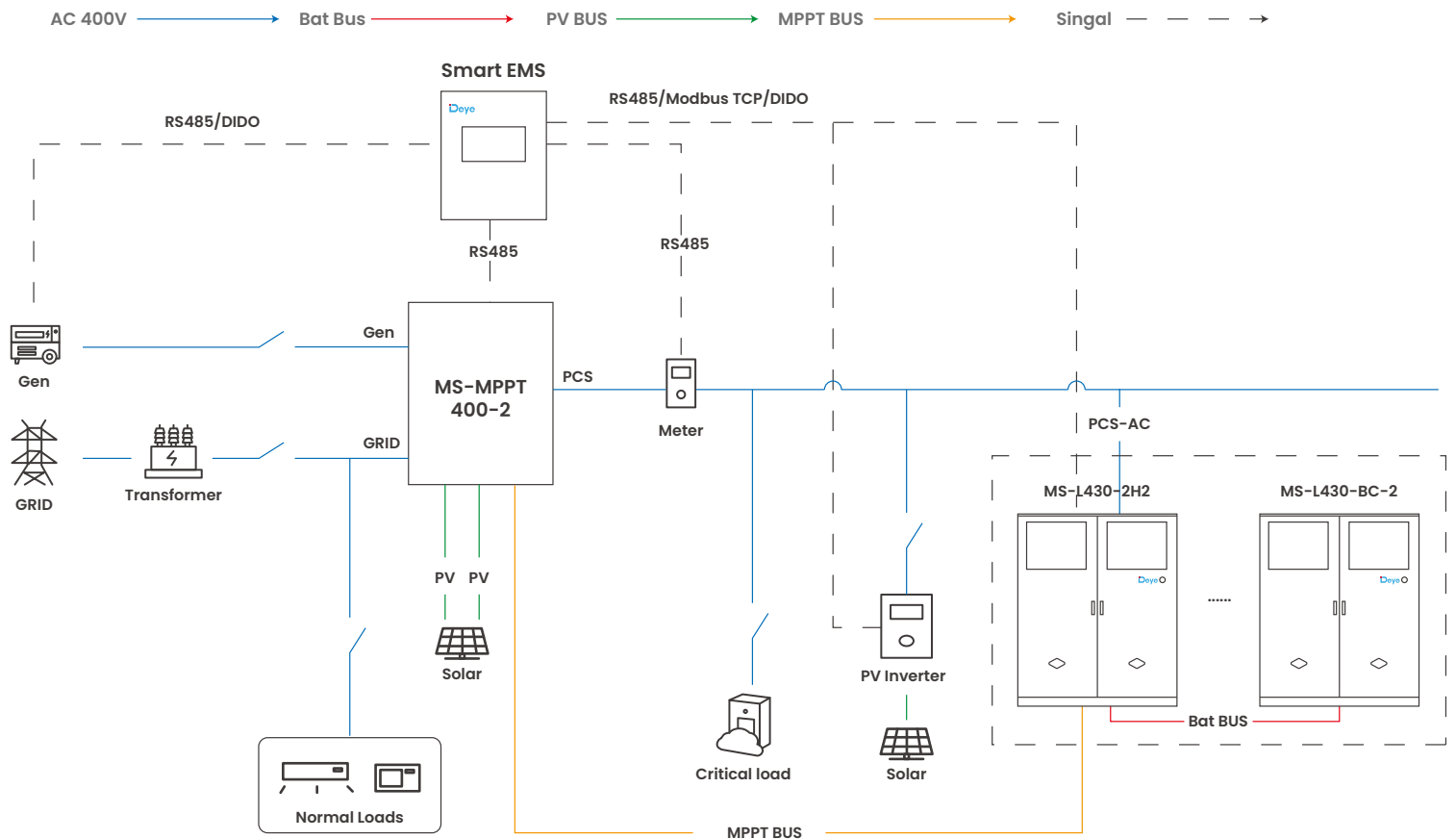
- Large capacity energy aggregation
- Real-time electricity price revenue calculation
- One click generation of statistical charts
- Maximum profit charging and discharging strategy

Efficient Operation and Maintenance

- Provide local / cloud operation and maintenance to ensure stable device operation
- Combination of multiple operation and maintenance methods for WEB / APP

Safe and Reliable

- Real-time alarm for equipment malfunction
- Support SOC balance management



Model		MS-EMS
System		
Configuration	EMS controller, lightning protection module, switch power supply, UPS module, switch	
Single Point Access Capacity	Energy storage : ≤ 3.44MWh Photovoltaic : ≤ 1.6MWp	
Function	Basic functions : peak valley arbitrage, anti backflow, main transformer overload protection, load tracking, demand control, backup power function, phase separation control, SOC balancing, Deye Cloud monitoring Advanced features : load forecasting, production planning, electricity price planning, optimal economic curv	
Communicate		
Ethernet (5 channels)	10 / 100 / 1000 Mbps	
Guangkou (2 channels)	1Gbps	
USB (2 channels)	Host	
CAN (3 channels)	Isolation, with 2 channels supporting CAN-FD	
RS485 (8 channels)	Isolation	
RS232 (3 channels)	2 isolated channels, 1 non isolated debugging channel (DB9 socket)	
TF Card (1 channel)	Standard TF card holder	
LVDS (1 channel)	The physical interface is DVI (including 1 USB for touch)	
M. 2 Interfaces (1 channel)	PCIe2.0 X1, Scalable SSD (standard 1TB)	
MiniPCle Interface (1 channel)	4G card with expandable USB communication protocol (standard)	
Nano SIM Interface (1 channel)	Used in conjunction with the miniPCle expansion 4G module	
DI (17 channels)	Optocoupler isolation	
DO (8 channels)	Relay isolation	
WLAN	802.11 b / AC g n, HT 20 / 40, 2.4 GHz 5 Ghz	
4G Antenna	Support multi country frequency bands	
Power Supply		
Communication Input	220Vac	
DC IN	24Vdc	
UPS Backup Power	24Vdc	
Consumption	Max 25W	
Environmental parameters		
Operation Temperature	-15°C ~ +50°C	
Storage Temperature	-15°C ~ +50°C	
Working Humidity	5% ~ 95%	
Max. Working Altitude (m)	≤3000m	
IP Rating of Enclosure	IP54	
Anti-Corrosion Grade	≥C4	
Mechanical parameters		
Dimension (W × D × H, mm)	488 × 188 × 588	
Weight Appr. (kg)	≤24.5kg	
Installation Location	Indoor or outdoor, wall-mounted	
Box Material	Metal	
Incoming Specifications	AC power cord : Recommended wire diameter 1.5mm² DC power cord : Recommended wire diameter of 1.5mm² Eight core Ethernet cable: Recommended CAT5e Ethernet cable RS485 : Recommended 0.75mm²~1.5mm² outdoor UV protection with shielding layer twisted pair cable length<1000m (baud rate 9600)	