



IPS48

SOLAR CONTROLLER

FOR SOLAR POWER SYSTEM WITH DIGITAL AND SYMBOL DISPLAY

The IPS48-100/200H PV CONTROLLER is the FULL-TECH controller solution for your telecommunication, residential, remote monitoring equipment and hybrid power needs

Features

- Industrial blocking electricity design structure.
- Three equalized/boost/float regulation is used.
- Exact remote digital temp sensor ($\pm 0.1^{\circ}\text{C}$), for the battery temp measurement
- Multi PV array charge input (4, 6 choose)
- Hall current sensor used
- Power MOSFET drive, use 5 times rating current design and low resistance MOSFET module
- Real-time clock with backup power
- System safety: Reverse polarity protected, transient protection, circuit breakers on arrays
- Multi I/O port, control port, outside sample port, alarm.
- RS-232 communication port (for MODEN, GPRS, etc)

Rating

IPS 48100H : 48Volt 100Amps

IPS48200H: 48Volt 200Amps

Technical specification

Nominal Voltage	48	Volt
Supply current maximum	180	mA
Supply current typical	160	Ma
Charge Regulator		
Array amount	4(100A)/6(200A)	
Array input voltage maximum	96	Volt
Solar charge current maximum per bank	35	Amp
Voltage drop of charge circuit	< 0.15	Volt
Total solar charge current	100/200A	Amp
Equalized charge voltage setting range	55 ~ 65	Volt (Default 60)
Boost charge voltage setting range	53 ~ 60	Volt (Default 56)
Float charge voltage setting range	50 ~ 58	Volt (Default 54)
Boost cut in voltage setting range	48 ~ 54	Volt (Default 51)
Temp compensation	1 ~ 9	mV/°C/Cell (Default 5)
Wire entry size	16(100A)/16(200A)	mm ²
Output Voltage Control		
Continuous output current maximum	50	Amp
Current overload limit	100	Amp
Over discharge cut off voltage	42 ~ 48	Volt
Over discharge return voltage	49 ~ 55	Volt
Voltage drop of discharge circuit	0.1	Volt
Wire entry size of battery and load	35(100A)/95(200A)	mm ²
Optional wire entry size of battery	35(100A)/95(200A)	mm ²
Generator		
Generator current measurement	400	Amp (DC side)
Auto cut in voltage setting range (cut in voltage = batt low voltage)	46 ~ 48	Volt
Relay capacity of start Generator	1/220	Amp / Volt AC
Generator oil low fault alarm port	1	rely signal input
Generator over temperature alarm port	1	rely signal input
Other alarm		
Battery lower voltage alarm setting range	46 ~ 48	Volt
Battery over voltage alarm	68	Volt
LCD display & communication		
LCD view area	114×64	mm×mm
Resolution of dots	240×128	DOTS
Communication	RS-232	
Environment		
Operating temperature range	-35 ~ + 55	°C
LCD display temperature	-20 ~ + 55	°C
Protection class	IP66	
Altitude	< 5000	metres