# Schneider Electric

# Modbus Register Map: Galaxy PW 2nd Gen
# 10-120 kVA 3:1 and 10-200 kVA 3:3

990-91505

**Notes:**

1. The setting for RS485 port readable is No by default. Please contact SE local Field Service Representative to get access authority via Tuner to change the setting to YES.

| Read func | Address | Parameter | 参数 | Description | Format | Size | Gain | Unit | RS485 port readable (by default) |
|---|---|---|---|---|---|---|---|---|---|
| 0x04 | 4000 | Input phase voltage L1 | 输入相电压L1 | Input voltage phase L1 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4001 | Input phase voltage L2 | 输入相电压L2 | Input voltage phase L2 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4002 | Input phase voltage L3 | 输入相电压L3 | Input voltage phase L3 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4003 | Input frequency | 输入频率 | Input frequency | unsigned int | 2 | 0.1 | Hz | YES |
| 0x04 | 4004 | Output phase voltage L1 | 输出相电压L1 | Output voltage phase L1 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4005 | Output phase voltage L2 | 输出相电压L2 | Output voltage phase L2 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4006 | Output phase voltage L3 | 输出相电压L3 | Output voltage phase L3 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4007 | Output current L1 | 输出电流L1 | Output current phase L1 | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4008 | Output current L2 | 输出电流L2 | Output current phase L2 | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4009 | Output current L3 | 输出电流L3 | Output current phase L3 | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4010 | Output frequency | 输出频率 | Output frequency | unsigned int | 2 | 0.1 | Hz | YES |
| 0x04 | 4011 | Apparent power L1 | 视在功率L1 | Output kVA phase L1 | unsigned int | 2 | 0.1 | kVA | YES |
| 0x04 | 4012 | Apparent power L2 | 视在功率L2 | Output kVA phase L2 | unsigned int | 2 | 0.1 | kVA | YES |
| 0x04 | 4013 | Apparent power L3 | 视在功率L3 | Output kVA phase L3 | unsigned int | 2 | 0.1 | kVA | YES |
| 0x04 | 4014 | Active power L1 | 有功功率L1 | Output kW phase L1 | unsigned int | 2 | 0.1 | kW | YES |
| 0x04 | 4015 | Active power L2 | 有功功率L2 | Output kW phase L2 | unsigned int | 2 | 0.1 | kW | YES |
| 0x04 | 4016 | Active power L3 | 有功功率L3 | Output kW phase L3 | unsigned int | 2 | 0.1 | kW | YES |
| 0x04 | 4017 | Output load percent L1 | 输出负载百分比L1 | Load percent phase L1 | unsigned int | 2 | 1 | % | YES |
| 0x04 | 4018 | Output load percent L2 | 输出负载百分比L2 | Load percent phase L2 | unsigned int | 2 | 1 | % | YES |
| 0x04 | 4019 | Output load percent L3 | 输出负载百分比L3 | Load percent phase L3 | unsigned int | 2 | 1 | % | YES |
| 0x04 | 4020 | Bypass phase voltage L1 | 旁路相电压L1 | Bypass voltage phase L1 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4021 | Bypass phase voltage L2 | 旁路相电压L2 | Bypass voltage phase L2 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4022 | Bypass phase voltage L3 | 旁路相电压L3 | Bypass voltage phase L3 (Phase to Neutral) | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4023 | Bypass frequency | 旁路频率 | Bypass frequency | unsigned int | 2 | 0.1 | Hz | YES |
| 0x04 | 4024 | Battery voltage | 电池电压 | Battery voltage | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4025 | Battery current - | 电池电流- | Battery discharge current | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4026 | Battery current + | 电池电流+ | Battery charging current | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4027 | Backup time | 后备时间 | Battery backup time | unsigned int | 2 | 1 | Min | YES |
| 0x04 | 4028 | Battery capacity | 电池容量 | Battery capacity | unsigned int | 2 | 1 | % | YES |
| 0x04 | 4029 | Input phase-phase voltage L1-2 | 输入相间电压L1-2 | Input phase-phase voltage L1-2 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4030 | Input phase-phase voltage L2-3 | 输入相间电压L2-3 | Input phase-phase voltage L2-3 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4031 | Input phase-phase voltage L3-1 | 输入相间电压L3-1 | Input phase-phase voltage L3-1 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4032 | Bypass phase-phase voltage L1-2 | 旁路相间电压L1-2 | Bypass phase-phase voltage L1-2 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4033 | Bypass phase-phase voltage L2-3 | 旁路相间电压L2-3 | Bypass phase-phase voltage L2-3 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4034 | Bypass phase-phase voltage L3-1 | 旁路相间电压L3-1 | Bypass phase-phase voltage L3-1 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4035 | Output phase-phase voltage L1-2 | 输出相间电压L1-2 | Output phase-phase voltage L1-2 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4036 | Output phase-phase voltage L2-3 | 输出相间电压L2-3 | Output phase-phase voltage L2-3 | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4037 | Output phase-phase voltage L3-1 | 输出相间电压L3-1 | Output phase-phase voltage L3-1 | unsigned int | 2 | 0.1 | V | YES |

| Read func | Address | Parameter | 参数 | Description | Format | Size | Gain | Unit | RS485 port readable (by default) |
|---|---|---|---|---|---|---|---|---|---|
| 0x04 | 4038 | Bypass current L1 | 旁路电流L1 | Bypass phase L1 current | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4039 | Bypass current L2 | 旁路电流L2 | Bypass phase L2 current | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4040 | Bypass current L3 | 旁路电流L3 | Byapss phase L3 current | unsigned int | 2 | 0.1 | A | YES |
| 0x04 | 4041 | DC bus voltage | 直流母线电压 | DC bus voltage | unsigned int | 2 | 0.1 | V | YES |
| 0x04 | 4042 | Total output load percent | 总输出负载百分比 | Total output load precent | unsigned int | 2 | 0.1 | % | YES |
| 0x04 | 4043 | Temperature - Charger SCR | 温度 - 充电器SCR | Charger SCR temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4045 | Temperature - Control board | 温度 - 控制板 | Control board temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4046 | Temperature - REC1 SCR | 温度 - REC1 SCR | Rectifier1  SCR temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4047 | Temperature - IGBT1 | 温度 - IGBT1 | IGBT 1 temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4048 | Temperature - IGBT2 | 温度 - IGBT2 | IGBT 2 temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4049 | Temperature - Battery | 温度 - 电池 | Battery temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4078 | Temperature - INV SCR | 温度 - 逆变SCR | Inverter SCR temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4079 | Temperature - Bypass SCR | 温度 - 旁路SCR | Bypass SCR temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4080 | Temperature - REC2 SCR | 温度 - REC2 SCR | REC2 (rectifier) SCR temperature | int | 2 | 1 | °C | YES |
| 0x04 | 4050 | UPS operation mode | UPS 运行模式 | UPS current running status | unsigned int | 1 | 1 | / | YES |
| 0x04 | 4051 | Battery charging status | 电池 - 充电状态 | Battery charging status | unsigned int | 1 | 1 | / | YES |
| 0x04 | 4052 | UPS power supply status | UPS电源状态 | UPS power supply status | unsigned int | 1 | 1 | / | YES |
| 0x03 | 3900 | Display firmware version | 显示固件版本 | Display firmware version | string | 8 | 1 | / | YES |
| 0x03 | 3908 | MCU firmware version | MCU固件版本 | MCU firmware version | string | 8 | 1 | / | YES |
| 0x03 | 3916 | DSP firmware version | DSP固件版本 | DSP firmware version | string | 8 | 1 | / | YES |
| 0x03 | 3924 | Hardware version | 硬件版本 | Hardware version | string | 8 | 1 | / | YES |
| 0x03 | 3208 | Frequency converter mode | 变频模式 | The output voltage and frequency of the inverter do not track the voltage and frequency of the bypass (Bypass is not available). | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3018 | Output rated voltage | 额定输出电压 | Output rated voltage - Inverter phase to neutral operating voltag | unsigned int | 2 | 1 | V | YES |
| 0x03 | 3019 | Output rated frequency | 额定输出频率 | Output rated frequency | unsigned int | 2 | 0.1 | Hz | YES |
| 0x03 | 3020 | Number of parallel UPSs | 并机UPS数量 | The total number of UPSs in the system. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3021 | Number of par. redundant UPSs | 冗余并机UPS数量 | Number of par. redundant UPSs | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3026 | Number of battery blocks | 电池节数 | Number of battery blocks in string. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3030 | Total battery capacity | 电池总容量 | The total rated capacity (AH) of all batteries | unsigned int | 2 | 1 | AH | YES |
| 0x03 | 3031 | Maximum charge current | 最大充电电流 | The maximum charge current  rate for charger | unsigned int | 2 | 0.01 | C | YES |
| 0x03 | 3033 | Float charge temp.compensation (mV/°C/cell) | 电池浮充温度补偿(mV/°C/单体) | Float charge temp. compensation: ≥25 °C:  0-7mV/°C/cell adjustable, default 0mV; < 25 °C:  not compensation | unsigned int | 2 | 1 | mV/Cell/°C | YES |
| 0x03 | 3034 | System time setting (Year-Mon) | 系统时间设置(年-月) | System time setting (Year-Month) | bitwise | 2 | 1 | / | YES |
| 0x03 | 3035 | System time setting (Day-Hour) | 系统时间设置(天-时) | System time setting (Day-Hour) | bitwise | 2 | 1 | / | YES |
| 0x03 | 3036 | System time setting (Min-Sec) | 系统时间设置(分-秒) | System time setting (Minute-Second) | bitwise | 2 | 1 | / | YES |
| 0x03 | 3037 | Modbus ID | Modbus ID | Device communication ID for 485 Modbus | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3041 | Modbus baud rate | Modbus波特率 | Modbus baud rate | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3042 | Power rating | 额定功率 | UPS power rating | unsigned int | 2 | 1 | / | YES |

| Read func | Address | Parameter | 参数 | Description | Format | Size | Gain | Unit | RS485 port readable (by default) |
|---|---|---|---|---|---|---|---|---|---|
| 0x03 | 3046 | Set output dry contact 1 | 设置输出干接点1 | D15:I/O Func  0:Open   1:Close | bitwise | 2 | 1 | / | YES |
| 0x03 | 3047 | Set output dry contact 2 | 设置输出干接点2 | D14~D8:Delay 0~127s | bitwise | 2 | 1 | / | YES |
| 0x03 | 3048 | Set output dry contact 3 | 设置输出干接点3 | D7~D0: Func 0~255：Details are as follows | bitwise | 2 | 1 | / | YES |
| 0x03 | 3049 | Set output dry contact 4 | 设置输出干接点4 | 0: OFF | bitwise | 2 | 1 | / | YES |
| 0x03 | 3050 | Set output dry contact 5 | 设置输出干接点5 | 1: Common Alarm<br>2: Normal Operation<br>3: Battery Operation<br>4: Static Bypass<br>5: Output Overloaded<br>6: Fan Inoperable<br>7: Battery Inoperable<br>8: Battery Disconnected<br>9: Battery Voltage Low<br>10: Input Out of Tolerance<br>11: Bypass Out of Tolerance<br>12: EPO Activated<br>13: Maintenance Mode<br>14: Backfeed of M1<br>15: Backfeed of M2 | bitwise | 2 | 1 | / | YES |
| 0x03 | 3052 | Set input dry contact 1 | 设置输入干接点1 | D15:I/O Func  0:Open   1:Close | bitwise | 2 | 1 | / | YES |
| 0x03 | 3053 | Set input dry contact 2 | 设置输入干接点2 | D14~D8:Delay 0~127s<br>D7~D0: Func 0~255：Details are as follows<br>0: OFF<br>1: UPS ON<br>2: UPS OFF<br>3: Battery Inoperable<br>4: Genset Enable<br>5: Custom Alarm 1<br>6: Custom Alarm 2<br>7: Disable ECO<br>8: Force INV off | bitwise | 2 | 1 | / | YES |
| 0x03 | 3200 | Auto restart | 自动重启 | When system is battery mode, UPS will enter the normal operation modeif main input is recovered. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3201 | Bypass not allowed | 不允许旁路 | Bypass is not allowed. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3202 | Shutdown into bypass | 关机转旁路 | If this setting is disabled, UPS will turn off the output when the inverter is off or overloaded. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3203 | Buzzer temporarily muted | 暂时静音 | Buzzer temporarily muted will be disabled after rebooting the system. | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3204 | Mute all alarms | 全部静音 | Buzzer mute | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3205 | Mute operation mode | 模式静音 | Mode buzzer mute | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3206 | Mute warnings | 静音警告 | Warning buzzer mute | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3207 | Mute critical events | 故障静音 | Critical event buzzer mute | unsigned int | 2 | 1 | / | YES |
| 0x03 | 3105 | Mode type 1(ASCII) | 型号类型 1(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3106 | Mode type 2(ASCII) | 型号类型 2(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3107 | Mode type 3(ASCII) | 型号类型 3(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3108 | Mode type 4(ASCII) | 型号类型 4(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3109 | Mode type 5(ASCII) | 型号类型 5(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3110 | Mode type 6(ASCII) | 型号类型 6(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3111 | Mode type 7(ASCII) | 型号类型 7(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3112 | Mode type 8(ASCII) | 型号类型 8(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |

| Read func | Address | Parameter | 参数 | Description | Format | Size | Gain | Unit | RS485 port readable (by default) |
|---|---|---|---|---|---|---|---|---|---|
| 0x03 | 3113 | Mode type 9(ASCII) | 型号类型 9(ASCII) | A register only describes two characters in ASCII. | string | 2 | 1 | / | YES |
| 0x03 | 3120 | Serial number 1(ASCII) | 序列号 1(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3121 | Serial number 2(ASCII) | 序列号 2(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3122 | Serial number 3(ASCII) | 序列号 3(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3123 | Serial number 4(ASCII) | 序列号 4(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3124 | Serial number 5(ASCII) | 序列号 5(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3125 | Serial number 6(ASCII) | 序列号 6(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 3126 | Serial number 7(ASCII) | 序列号 7(ASCII) | This register is set to 2 characters. A total of 8 bytes is used for | string | 2 | 1 | / | YES |
| 0x03 | 5185 | Air filter maintenance time | 过滤网维护时间 | Air filter maintenance cycle | unsigned int | 2 | 1 | Month | YES |
| 0x03 | 5195 | Air filter online counter | 过滤网运行时间 | Air filter online counter | unsigned int | 2 | 1 | Day | YES |
| 0x03 | 5196 | Battery online counter | 电池运行时间 | Battery online counter | unsigned int | 2 | 1 | Day | YES |
| 0x02 | 2000 | UOB | UOB | Unit Output Breaker | bitwise | 1 | 1 | / | YES |
| 0x02 | 2001 | MBB | MBB | Maintenance Bypass Breaker | bitwise | 1 | 1 | / | YES |
| 0x02 | 2002 | ECO mode | ECO模式 | ECO mode | bitwise | 1 | 1 | / | YES |
| 0x02 | 2003 | Status - Battery test | 状态 - 电池测试 | Battery test status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2004 | Status - Charging status | 状态 - 充电状态 | Battery charging status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2005 | Status - Charging mode | 状态 - 充电模式 | Battert charging mode | bitwise | 1 | 1 | / | YES |
| 0x02 | 2006 | Rectifier status | 整流器状态 | Rectifier status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2007 | Main input power status | 主路输入状态 | Main input power status | bitwise | 1 | 1 | / | YES |
| 0x02 | 4063 | Power supply mode | 供电源 | Power supply  mode | bitwise | 1 | 1 | / | YES |
| 0x02 | 2009 | UPS shutdown with load drop | UPS 关机卸载 | UPS shutdown with load drop | bitwise | 1 | 1 | / | YES |
| 0x02 | 2010 | INV off due to INV overload | 逆变器因过载而关闭 | Inverter off due to INV overload | bitwise | 1 | 1 | / | YES |
| 0x02 | 2011 | Transfer to fault due to more than 3 times | 转故障三次 | Transfer Times-out | bitwise | 1 | 1 | / | YES |
| 0x02 | 2012 | EPO | 紧急停机 | System EPO | bitwise | 1 | 1 | / | YES |
| 0x02 | 2013 | BB status | BB状态 | Battery breaker status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2014 | Input out of tol. | 输入超限 | Input voltage or frequency out of range | bitwise | 1 | 1 | / | YES |
| 0x02 | 2016 | Master/Slave | 主机/从机 | Master/Slave | bitwise | 1 | 1 | / | YES |
| 0x02 | 2017 | Generator access status | 发电机接入状态 | Generator access status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2018 | INV Status | 逆变器状态 | Inverter status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2019 | Bypass status | 旁路状态 | Bypass status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2020 | INV overload on output | 逆变输出过载 | Inverter overload on output | bitwise | 1 | 1 | / | YES |
| 0x02 | 2021 | Bypass overload on output | 旁路输出过载 | Bypass overload on output | bitwise | 1 | 1 | / | YES |
| 0x02 | 2022 | Bypass out of tol. | 旁路超限 | Bypass voltage or frequency out of range | bitwise | 1 | 1 | / | YES |
| 0x02 | 2023 | UPS important alarm | UPS 故障 | UPS generates alarm | bitwise | 1 | 1 | / | YES |
| 0x02 | 2024 | UPS warning | UPS 警告 | UPS generates warning | bitwise | 1 | 1 | / | YES |
| 0x02 | 2025 | Batt breaker trip status | 电池开关脱扣状态 | Battery breaker trip status | bitwise | 1 | 1 | / | YES |
| 0x02 | 2026 | Battery not connected | 电池未连接 | No battery connected | bitwise | 1 | 1 | / | YES |
| 0x02 | 2034 | Input chock overtemperature | 输入电感温度过高 | Input chock or transformer temperature | bitwise | 1 | 1 | / | YES |
| 0x02 | 2035 | INV transformer overtemperature | 逆变器变压器过温 | Inverter transformer overtemperature | bitwise | 1 | 1 | / | YES |
| 0x02 | 2027 | Inverter inoperable | 逆变不可用 | Inverter inoperable | bitwise | 1 | 1 | / | YES |
| 0x02 | 2028 | EOD voltage | 截止放电电压 | Battery end of discharge | bitwise | 1 | 1 | / | YES |

| Read func | Address | Parameter | 参数 | Description | Format | Size | Gain | Unit | RS485 port readable (by default) |
|---|---|---|---|---|---|---|---|---|---|
| 0x02 | 2029 | Low battery voltage | 电池电压低 | Battery low pre-warning: EOD+0.17V | bitwise | 1 | 1 | / | YES |
| 0x02 | 2030 | REC1 SCR overtemperature warning | 整流 SCR 过温警告 | Rectifier SCR overtemperature | bitwise | 1 | 1 | / | YES |
| 0x02 | 2031 | INV SCR overtemperature warning | 逆变 SCR 过温警告 | Inverter SCR overtemperature | bitwise | 1 | 1 | / | YES |
| 0x02 | 2032 | Bypass SCR overtemperature warning | 旁路 SCR 过温警告 | Bypass SCR overtemperature | bitwise | 1 | 1 | / | YES |
| 0x02 | 2033 | Short circuit on output | 输出短路 | Output short circuit | bitwise | 1 | 1 | / | YES |
| 0x02 | 2036 | Fan inoperable | 风扇不可用 | Fan inoperable | bitwise | 1 | 1 | / | YES |
| 0x04 | 4053 | Critical event information 1 | 故障信息 1 | See D0-D15 in the Critical Event Information table for details. | unsigned int | 2 | 1 | / | NO (See Note section.) |
| 0x04 | 4054 | Critical event information 2 | 故障信息 2 | See D16-D31 in the Critical Event Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4055 | Critical event information 3 | 故障信息 3 | See D32-D47 in the Critical Event Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4056 | Critical event information 4 | 故障信息 4 | See D48-D63 in the Critical Event Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4057 | Critical event information 5 | 故障信息 5 | See D64-D79 in the Critical Event Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4059 | Warning information 1 | 警告信息 1 | See D0-D15 in the Alarm Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4060 | Warning information 2 | 警告信息 2 | See D15-D31 in the Alarm Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4061 | Warning information 3 | 警告信息 3 | See D31-D47 in the Alarm Information table for details. | unsigned int | 2 | 1 | / | |
| 0x04 | 4062 | Warning information 4 | 警告信息 4 | See D48-D63 in the Alarm Information table for details. | unsigned int | 2 | 1 | / | |

# System Status

| Code (Hex) | System Status  (English) | 状态标签 |
| --- | --- | --- |
| 0x0000 | Initialize | 初始化 |
| 0x0001 | Power ON | 正在开机 |
| 0x0002 | Standby | 待机模式 |
| 0x0003 | Bypass | 旁路模式 |
| 0x0004 | Normal | 逆变模式 |
| 0x0005 | Battery | 电池模式 |
| 0x0006 | Battery test | 电池测试模式 |
| 0x0007 | Inoperable | 故障模式 |
| 0x0008 | Frequency | 变频模式 |
| 0x0009 | ECO | ECO模式 |
| 0x000A | Shutdown | 关机 |
| 0x000B | Factory test | 工厂测试模式 |
| 0x000C | Maintenance | 维修模式 |

# Critical Event Information

| ID(Hex) | Bit | 紧急事件（中文） | Critical Event (English) | Note |
|---|---|---|---|---|
| Reserved | D0-D8 | 0(Re+D4:D40served) | 0(Reserved) | 0(Reserved) |
| 62 | D9 | 整流1 SCR 过温 | REC1 SCR overtemperature | 1.Rectifier1 SCR overtemperature |
| 61 | D10 | 充电器 SCR 过温 | Charger SCR overtemperature | 1.Charger SCR overtemperature |
| 63 | D11 | 逆变器 SCR 过温 | INV SCR overtemperature | 1.INV SCR overtemperature |
| 64 | D12 | 旁路 SCR 过温 | Bypass SCR overtemperature | 1.Bypass SCR overtemperature |
| 66 | D13 | IGBT1 过温 | IGBT1 overtemperature | 1.IGBT1 overtemperature |
| 67 | D14 | IGBT2 过温 | IGBT2 overtemperature | 1.IGBT2 overtemperature |
| 65 | D15 | 控制板过温 | Control board overtemperature | 1.Control board overtemperature |
| 69 | D16 | 输入电感/变压器过温 | Input chock/transformer overtemperature | 1.I/P CHOCK/TX overtemperature |
| 6A | D17 | 逆变变压器过温 | INV transformer overtemperature | 1.INV TX overtemperature |
| 68 | D18 | 整流2 SCR 过温 | REC2 SCR overtemperature | 1.Rectifier2 SCR overtemperature |
| 1 | D27 | 直流母线软启动失败 | DC bus soft start unsuccessful | 1.Bus soft-start inoperable |
| 2 | D28 | 直流母线过压 | DC bus overvoltage | 1.Abnormal \| 0.Normal |
| 3 | D29 | 直流母线欠压 | DC bus undervoltage | 1.Abnormal \| 0.Normal |
| 11 | D31 | 逆变软启动失败 | INV soft start unsuccessful | 1.INV soft-start inoperable |
| 12 | D32 | 逆变电压高 | INV voltage high | 1.Abnormal \| 0.Normal |
| 13 | D33 | 逆变电压低 | INV voltage low | 1.Abnormal \| 0.Normal |
| 14 | D34 | 逆变短路 | INV short circuit | 1.Abnormal \| 0.Normal |
| 15 | D35 | 逆变短路 | INV short circuit | 1.Abnormal \| 0.Normal |
| 16 | D36 | 逆变短路 | INV short circuit | 1.Abnormal \| 0.Normal |
| 17 | D37 | 逆变相间短路 | INV phase-phase short circuit | 1.Abnormal \| 0.Normal |
| 18 | D38 | 逆变相间短路 | INV phase-phase short circuit | 1.Abnormal \| 0.Normal |
| 19 | D39 | 逆变相间短路 | INV phase-phase short circuit | 1.Abnormal \| 0.Normal |
| 25 | D45 | 接线错误 | Incorrect wiring | 1.Abnormal \| 0.Normal |
| 26 | D46 | 切换动作线丢失 | Switch action cable lost | 1.Abnormal \| 0.Normal |
| 29 | D49 | 并机主机线丢失 | Parallel host cable loss | 1.Abnormal \| 0.Normal |
| 2A | D50 | 并机UPS输出电压不匹配 | Output voltages for parallel UPSs do not match | 1.Abnormal \| 0.Normal |
| 2C | D51 | 逆变切换到旁路超时 | INV to bypass timeout | 1.Abnormal \| 0.Normal |
| 2D | D52 | 旁路切换到 逆变超时 | Bypass to INV timeout | 1.Abnormal \| 0.Normal |
| 2E | D53 | 并机版本不兼容 | Parallel versions not compatible | 1.Parallel FW version incompatible \| 0.Normal软件版本不一致时，不能并入并机 |
| 42 | D55 | CPU 通讯丢失 | CPU communication lost | 1.Abnormal \| 0.Normal |
| 43 | D56 | 过载严重事件 | Overload critical event | 1.Inverter overload  \| 0.Normal |
| 48 | D57 | DSP 固件不兼容 | DSP firmware is not compatible | 1.Abnormal \| 0.Normal |
| 52 | D58 | 电池电压过高 | Battery voltage high | 1.High battery voltage |
| 56 | D62 | L1 输出过流 | L1 output overcurrent | 1.Abnormal \| 0.Normal |
| 57 | D63 | L2 输出过流 | L2 output overcurrent | 1.Abnormal \| 0.Normal |
| 58 | D64 | L3 输出过流 | L3 output overcurrent | 1.Abnormal \| 0.Normal |
| 59 | D65 | L1 逆变SCR 故障 | L1 INV SCR inoperable | 1.Abnormal \| 0.Normal |
| 5A | D66 | L2 逆变SCR 故障 | L2 INV SCR inoperable | 1.Abnormal \| 0.Normal |
| 5B | D67 | L3 逆变SCR 故障 | L3 INV SCR inoperable | 1.Abnormal \| 0.Normal |
| 5C | D68 | L1 旁路 SCR 故障 | L1 bypass SCR inoperable | 1.Abnormal \| 0.Normal |
| 5D | D69 | L2 旁路 SCR 故障 | L2 bypass SCR inoperable | 1.Abnormal \| 0.Normal |
| 5E | D70 | L3 旁路 SCR 故障 | L3 bypass SCR inoperable | 1.Abnormal \| 0.Normal |
| 6B | D71 | 并机UPS数量设置不匹配 | Numbers for paralell UPSs do not match | 1.Abnormal \| 0.Normal |
| 6C | D72 | 并机UPS输出频率不匹配 | Output frequencys for parallel UPSs do not match | 1.Abnormal \| 0.Normal |
| Reserved | D73-D96 | 0 (Reserved) | 0 (Reserved) | 0 (Reserved) |

# Alarm Information

| Bit | 告警 （中文） | Alarm (English) | Notes |
|---|---|---|---|
| D0 | 电池未连接 | Battery not connected | 0: Normal \| 1: Abnormal |
| D1 | 输入相位错误 | Input phase incorrect | 0: Normal \| 1: Abnormal |
| D2 | 旁路相位错误 | Bypass phase incorrect | 0: Normal \| 1: Abnormal |
| D3 | 电池过充 | Battery overcharge | 0: Normal \| 1: Abnormal |
| D4 | 电池电压低 | Low battery voltage | 0: Normal \| 1: Abnormal |
| D5 | 紧急停机已激活 | EPO activated | 0: Normal \| 1: Abnormal |
| D6 | 容量模式 (N+0) | Capacity mode (N+0) | 0: Normal \| 1: Abnormal |
| D7 | 电池电压低于关机电压 | Battery voltage below shutdown voltage | 0: Normal \| 1: Abnormal |
| D8 | 旁路频率不稳定 | Bypass frequency unstable | 0: Normal \| 1: Abnormal |
| D9 | MBB 闭合 | MBB closed | 0: Normal \| 1: Abnormal |
| D10 | 剩余备份时间 | Remaining backup time | 0: Normal \| 1: Abnormal |
| D11 | 电池测试未完成 | Battery test incomplete | 0: Normal \| 1: Abnormal |
| D12 | 自定义警报 1 | Custom alarm 1 | 0: Not-active \| 1: Active |
| D13 | 自定义警报 2 | Custom alarm 2 | 0: Not-active \| 1: Active |
| D14 | 电池故障(干接点) | Battery inoperable (dry contact) | 0: Not-active \| 1: Active |
| D15 | 输出过载警告 | Output overload warning | 0: Normal \| 1: Abnormal |
| D16 | 旁路过载警告 | Bypass overload warning | 0: Normal \| 1: Abnormal |
| D17 | 旁路异常 | Bypass unavailable | 0: Normal \| 1: Abnormal |
| D18 | 输入不可用 | Input unavailable | 0: Normal \| 1: Abnormal |
| D19 | MBB使用不正确 | Incorrect use of MBB | 0: Normal \| 1: Abnormal |
| D20 | 并机线缆损坏 | Parallel cable damaged | 0: Normal \| 1: Abnormal |
| D21 | 输入频率超限 | Input frequency out of tolerance | 0: Normal \| 1: Abnormal |
| D22 | 输入电压超限 | Input voltage out of tolerance | 0: Normal \| 1: Abnormal |
| D23 | 旁路不同步 | Bypass out of sync. | 0: Normal \| 1: Abnormal |
| D24 | 风扇故障 | Fan inoperable | 0: Normal \| 1: Abnormal |
| D25 | 逆变器不同步 | INV out of synchronization | 0: Normal \| 1: Abnormal |
| D26 | 电池过温警告 | Battery overtemperature warning | 0: Normal \| 1: Abnormal |
| D27 | 控制板过温警告 | Control board overtemperature warning | 0: Normal \| 1: Abnormal |
| D28 | REC1 SCR 过温警告 | REC1 SCR overtemperature warning | 0: Normal \| 1: Abnormal |
| D29 | 充电器 SCR 过温警告 | Charger SCR overtemperature warning | 0: Normal \| 1: Abnormal |
| D30 | 逆变器 SCR 过温警告 | INV SCR overtemperature warning | 0: Normal \| 1: Abnormal |
| D31 | 旁路 SCR 过温警告 | Bypass SCR overtemperature warning | 0: Normal \| 1: Abnormal |
| D32 | IGBT1 过温警告 | IGBT1 overtemperature warning | 0: Normal \| 1: Abnormal |
| D33 | IGBT2 过温警告 | IGBT2 overtemperature warning | 0: Normal \| 1: Abnormal |
| D36 | REC2 SCR 过温警告 | REC2 SCR overtemperature warning | 0: Normal \| 1: Abnormal |
| D37 | BB 断开 | BB open | 0: Normal \| 1: Abnormal |
| D38 | 保修即将到期 | Warranty expiring soon | 0: Normal \| 1: Abnormal |
| D39 | 保修已过期 | Warranty expired | 0: Normal \| 1: Abnormal |
| D40 | 检查电池 | Check batteries | 0: Normal \| 1: Abnormal |
| D41 | 检查过滤网 | Check air filter | 0: Normal \| 1: Abnormal |
| D42 | 检查AUX PSU | Check AUX PSU | 0: Normal \| 1: Abnormal |
| D43 | 检查AC电容 | Check AC capacitor | 0: Normal \| 1: Abnormal |
| D44 | 检查DC电容 | Check DC capacitor | 0: Normal \| 1: Abnormal |
| D45 | 检查风扇 | Check fan | 0: Normal \| 1: Abnormal |

| Bit | 告警 （中文） | Alarm (English) | Notes |
|---|---|---|---|
| D46 | EEPROM 故障 | EEPROM inoperable | 0: Normal \| 1. EPROM inoperable |
| D47 | 不允许旁路 | Bypass not allowed | 0: Normal \| 1: Abnormal |
| D48 | 旁路频率超限 | Bypass frequency out of tolerance | 0: Normal \| 1: Abnormal |
| D49 | 旁路电压超限 | Bypass voltage out of tolerance | 0: Normal \| 1: Abnormal |
| D50 | 旁路时开启反向馈电保护 | Backfeed on bypass | 0: Normal \| 1: Abnormal |
| D51 | 输入时开启反向馈电保护 | Backfeed on input | 0: Normal \| 1: Abnormal |
| D52 | 并机设备数目错误 | Incorrect number of parallel units | 0: Normal \| 1: Abnormal |
| D53 | 转故障三次 | Transfer to fault due to more than 3 times | 0: Normal \| 1: Abnormal |
| D54 | 并机旁路输入不一致 | Par. bypass input out of sync | 0: Normal \| 1: Abnormal |
| D55 | 输出开关断开 | Output switch off | 0: Normal \| 1: Abnormal |
| D56 | SPS异常 | SPSAbnormal | 0: Normal \| 1: Abnormal |
| D55-D63 | 0(Reserved) | 0(Reserved) | 0(Reserved) |

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