

Register Address (DEC)	Type	Name	Discription	R/W	Min	Max	Unit	Scale	Note
	UInt16	System_Max_Active_Power_Limit	Controller Setting	R/W	0	65535	kW	0.1	
	UInt16	System_Mode	Controller Setting	R/W	0	0xFFFF		0.1	bit 0: Stand by bit 1: On-Grid Fixed Power Factor Control mode Enable(PCS功率因數充放模式) bit 2: On-Grid Volt-Var Control Enable bit 3: On-Grid Volt-Watt Control Enable bit 4: On-Grid Volt-Var-Watt Control Enable bit 5: On-Grid Freq-Watt Enable(電網頻率調節模式) bit 6: Bypass PQ Mode Enable (PCS實虛功充放模式) bit 7: On-Grid Freq-Watt with Volt-Var Enable bit 8: bit 9: bit 10: ESS SOC Calibration set
	UInt16	System_Max_SOC_Limit	Controller Setting	R/W	0	1000	%	0.1	Default: 90.0%
	UInt16	System_Min_SOC_Limit	Controller Setting	R/W	0	1000	%	0.1	Default: 10.0%
	Int16	System_Max_P_Limit	Controller Setting	R/W	0	5000	kW	0.1	Min, Max欄位數值由各案場依實際情況提供 (放電)
	Int16	System_Min_P_Limit	Controller Setting	R/W	-5000	0	kW	0.1	Min, Max欄位數值由各案場依實際情況提供 (充電)
	Int16	System_Max_Q_Limit	Controller Setting	R/W	0	5000	kVAR	0.1	Min, Max欄位數值由各案場依實際情況提供 (正虛功)
	Int16	System_Min_Q_Limit	Controller Setting	R/W	-5000	0	kVAR	0.1	Min, Max欄位數值由各案場依實際情況提供 (負虛功)
	UInt16	Controller_Error_1	Controller Error	R	0x0000	0xFFFF			各模式執行錯誤狀態回報 bit 0: Stand by Error bit 1: On-Grid Fixed Power Factor Control mode Enable Error bit 2: On-Grid Volt-Var Control Enable Error bit 3: On-Grid Volt-Watt Control Enable Error bit 4: On-Grid Volt-Var-Watt Control Enable Error bit 5: On-Grid Freq-Watt Enable Error bit 6: On-Grid PQ Mode Enable Error bit 7: On-Grid Freq-Watt with Volt-Var Error bit 8: bit 9:
	UInt16	Controller_Error_2	Controller Error	R	0x0000	0xFFFF			bit 0: SOC over max bit 1: SOC under min bit 3: System P over max bit 4: System P over min bit 5: System Q over max bit 6: System Q over min
	UInt16	Controller_Error_3	Controller Error	R	0x0000	0xFFFF			由各案場自行定義或保留
	UInt16	Controller_Error_4	Controller Error	R	0x0000	0xFFFF			由各案場自行定義或保留
	UInt16	Communication_Error1	Communication Error	R	0x0000	0xFFFF			相關設備通訊錯誤，以下為範例，依實際系統規劃 bit 0: AUX電表(0: normal, 1: error) bit 1: 其他設備 (0: normal, 1: error) bit 2: 電驛(0: normal, 1: error) bit 3: BMS(0: normal, 1: error) bit 4: Pressure (0: normal, 1: error) bit 5: GND impedance (0: normal, 1: error) bit 6: V+ impedance (0: normal, 1: error) bit 7: V- impedance (0: normal, 1: error) bit 8: bit 9: bit 10: bit 11: bit 12: bit 13: bit 14: bit 15:

	UInt16	Communication Error2	Communication Error	R	0x0000	0xFFFF		相關設備通訊錯誤，以下為範例，依實際系統規劃 bit 0: 電池室空調#1(0: normal, 1: error) bit 1: 電池室空調#2(0: normal, 1: error) bit 2: 控制室空調#1(0: normal, 1: error) bit 3: 控制室空調#2(0: normal, 1: error) bit 4: 環境偵測設備(0: normal, 1: error) bit 5: PCS(0: normal, 1: error) bit 6: 主變一次側電表(0: normal, 1: error) bit 7: 主變二次側電表(0: normal, 1: error) bit 8: NO.1 直流多功表(0: normal, 1: error) bit 9: NO.2 直流多功表(0: normal, 1: error) bit 10: NO.3 直流多功表(0: normal, 1: error) bit 11: NO.4 直流多功表(0: normal, 1: error) bit 12: NO.5 直流多功表(0: normal, 1: error) bit 13: NO.6 直流多功表(0: normal, 1: error) bit 14:NO.7直流多功表(0: normal, 1: error) bit 15: MCCB電表(0: normal, 1: error)	
	UInt16	Communication Error3	Communication Error	R	0x0000	0xFFFF		相關設備通訊錯誤，以下為範例，依實際系統規劃 bit 0: 緩衝電池櫃#1 BMU-H1(0: normal, 1: error)	
	UInt16	Communication Error4	Communication Error	R	0x0000	0xFFFF		相關設備通訊錯誤，以下為範例，依實際系統規劃 bit 0: 隔離電池櫃#9 BMU-H1(0: normal, 1: error)	
	Int16	On-Grid Fixed Power Factor Control Mode P	Fixed Power Factor	R/W	-5000	5000	kW	0.1	功率因數充放模式P值。Min, Max欄位數值由各案場依實際情況提供
	Int16	On-Grid Fixed Power Factor Control Mode PF	Fixed Power Factor	R/W	-100	100		0.01	功率因數充放模式PF值。
	UInt16	Volt_Var_ReactivePower_reference	Grid Reactive Adjust	R/W	0	5000	kVAR	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Voltage_reference	Grid Voltage Adjust	R/W	20000	25000	kV	0.001	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P1_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P1_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P2_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P2_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P3_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P3_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P4_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P4_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P5_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P5_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P6_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P6_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Set P7_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Var_Set P7_Var	Grid Reactive Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Voltage_reference	Grid Voltage Adjust	R/W	20000	25000	kV	0.001	
	UInt16	Volt_Watt_ActivePower_reference	Grid Power Adjust	R/W	0	5000	kW	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P1_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P1_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P2_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P2_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P3_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P3_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P4_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P4_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P5_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P5_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Watt_Set P6_Volt	Grid Voltage Adjust	R/W	8800	11000	%	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int16	Volt_Watt_Set P6_Watt	Grid Power Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Watt_Power_reference	Grid Power Adjust	R/W	0	5000	kW	0.1	Min, Max欄位數值由各案場依實際情況提供

	UInt16	Volt_Var_Watt_ReactivePower_reference	Grid Power Adjust	R/W	0	5000	kVAR	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	Volt_Var_Watt_Voltage_reference	Grid Voltage Adjust	R/W	20000	25000	kV	0.001	
	UInt16	Freq_Watt_ActivePower_reference	Grid Frequency Adjust	R/W	0	5000	kW	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_A_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_a_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_B_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_b_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_C_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_c_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_D_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_d_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_E_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_e_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt32	Freq_Watt_Set_F_Freq	Grid Frequency Adjust	R/W	5600	6400	Hz	0.01	Min, Max欄位數值由各案場依實際情況提供
	Int32	Freq_Watt_Set_f_Watt	Grid Freq_Watt Adjust	R/W	-1000	1000	%	0.1	Min, Max欄位數值由各案場依實際情況提供
	Int16	Bypass ActivePower Set	Bypass PQ Mode	R/W	-5000	5000	kW	0.1	Min, Max欄位數值由各案場依實際情況提供
	Int16	Bypass ReactivePower Set	Bypass PQ Mode	R/W	-5000	5000	kVAR	0.1	Min, Max欄位數值由各案場依實際情況提供
	UInt16	電壓穿越功能	Fault Right Through	R/W	0x0000	0xFFFF			併網驗證系統可透過電網控制器設定PCS電壓穿越功能啟動或停止 bit 0: LVRT(0: Disable, 1: Enable) bit 1: HVRT(0: Disable, 1: Enable)