













Back Panel















Features

- Wide input voltage range 10~60VDC / 60~420VDC by models
- · High efficiency up to 91%
- · Modular design for flexible configuration
- Flexible CC/CV operation modes
- · Remote control and monitoring by CANBus protocol via CMU2A control console
- Maximum 64 units ERG-5000 series that can be connected
- Protections: Over voltage / Under voltage / Over temperature /Over power / Grid fault / Communication error
- 5 years warranty

Applications

- · Battery test or power supply aging system
- Energy recycling system
- · Connector mechanical test

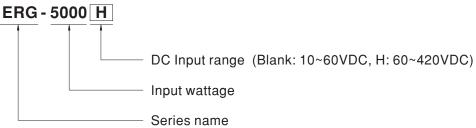
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

ERG-5000 series is an Grid Type energy recycling power inverter that supports 5KW rated and maximum up to 6KW input, It can achieve high efficiency up to 91%. CC and CV modes selectable and 4 input channels design that can be used independently or connected in series or parallel offer flexible combinations for various applications. Moreover, the ERS-5000 series also provide remote control and monitoring functions by using CMU2A or the CANBus protocol for data analysis and remote monitor. ERG-5000 supports 10~60VDC input voltage & ERG-5000H supports 60~420VDC input voltage.

Model Encoding



 Note: Control / Monitor unit, CMU2 available. Details on https://www.meanwell.com/ Order No. CMU2A-#R#

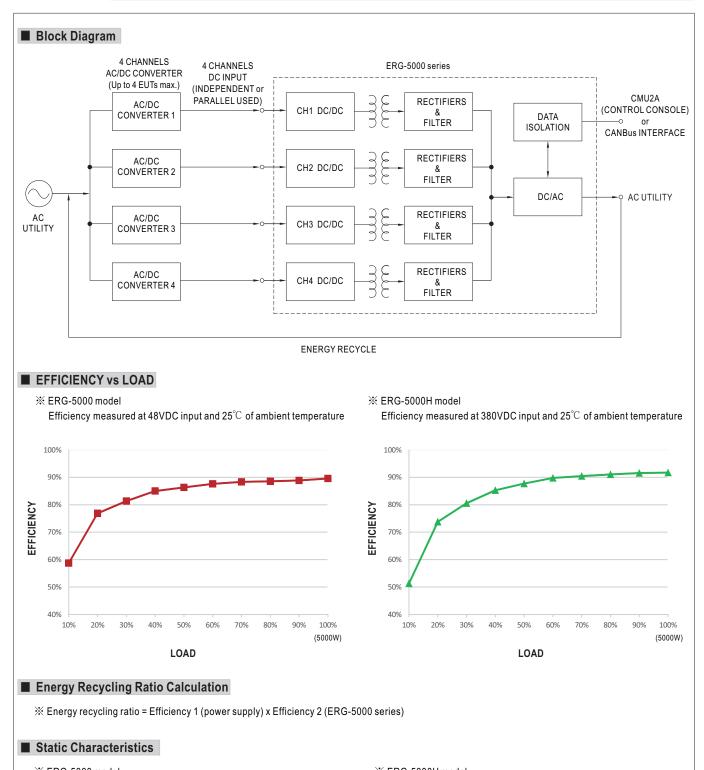


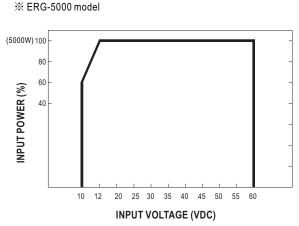
4 Channels 5KW Energy Recycling Grid Type Power Inverter **ERG-5000** series

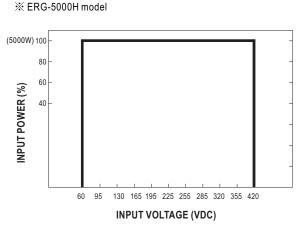
SPECIFICATION (Note.1)

	ATION (Note.1)	EDC 5000	ERC FOROLL	
MODEL		ERG-5000	ERG-5000H	
	RATED INPUT POWER (Typ.)	5000W (1250W*4CH)	5000W (1250W*4CH)	
	MAX. INPUT POWER (Typ.) (Note.2)	,	6000W (1500W*4CH)	
DC INPUT	INPUT VOLTAGE RANGE	10 ~ 60VDC	60 ~ 420VDC	
	RATED INPUT CURRENT (Typ.)	105A*4CH	21A*4CH	
	MAX. INPUT CURRENT (Typ.)	125A*4CH	25A*4CH	
	RATED OUTPUT POWER (Typ.)	2600 ~ 4320VA (For input 10 ~ 12VDC) 4320 ~ 4400VA (For input 12 ~ 60VDC)	4500 ~ 4600VA (For input 60 ~ 420VDC)	
	AC VOLTAGE RANGE	180 ~ 264 ± 5VAC, single phase		
	AC GRID FREQUENCY	47 ~ 63Hz		
AC OUTPUT	MAX. OUTPUT CURRENT (Typ.)	24A/230VAC		
ACCOIFCI	POWER FACTOR (AT RATED POWER)			
	THD(AT RATED POWER) (Typ.)	<5%		
	EFFICIENCY (Typ.)	88%@48VDC input/5000W	91%@380VDC input/5000W	
	ENERGY RECYCLING	80%@48VDC input/5000W (power supply efficiency≥90.5%)	88%@380VDC input/5000W (power supply efficiency≥96.5%)	
	RATIO (Typ.)	Please refer to page 3 energy recycling ratio for more detail	1 117 7 7	
	OVER TEMPERATURE	Shuts down AC output voltage, reset after fault condition removed		
	DC INPUT OVER VOLTAGE	Shuts down AC output voltage, reset after fault condition remo		
	DC INPUT UNDER VOLTAGE	Shuts down AC output voltage, reset after fault condition remo		
PROTECTION	GRID FAULT (Note.3)	Shuts down AC output voltage, reset after fault condition remo		
	COMMUNICATION ERROR	Shuts down AC output voltage, reset after fault condition removed Shuts down AC output voltage after communication is failed for 4s. Reset after communication is re-built		
	OVER POWER	Constant power limiting at MAX input power		
	COMMUNICATION INTERFACE			
	CC/CV MODE SELECT	CONSTANT CURRENT (CC): 0.5~125A(±1%) / per. channel	CONSTANT CURRENT (CC): 0.1~25A(±1%) / per. channel	
FUNCTION	(Note.4)	CONSTANT VOLTAGE (CV) : 10~60VDC (±1%)	CONSTANT VOLTAGE (CV): 60~420VDC (±1%)	
	PARALLEL	Please refer to function manual and user manual for more deta		
	WORKING TEMP.	-20 ~ +60°C		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
	SAFETY STANDARDS	BS EN/EN62368-1 approved		
SAFETY &	OA ETT OFFICE	I/P-O/P:4KVDC I/P-FG:2.5KVDC O/P-FG:2.5KVDC	I/P-O/P:2.5KVDC I/P-FG:2.5KVDC O/P-FG:2.5KVDC	
EMC	WITHSTAND VOLTAGE	I/P: DC input, O/P: AC output (Communiction port JK1 excluded)		
(Note 6)	EMC EMISSION Note.5	Compliance to BS EN/EN55032 (CISPR32) Class A		
	EMC IMMUNITY Note.5	Compliance to BS EN/EN50032 (CISPR32) Class A Compliance to BS EN/EN55035, BS EN/EN61000-4-2,3,4,5,6 light industry level, criteria A		
	LINO IMMONITTI NOLE.S		K hrs min. MIL-HDBK-217F (25°C)	
	MTBF	ERG-5000H: 172K hrs min. Telcordia SR-332 (Bellcore); 19.5K hrs min. MIL-HDBK-217F (25°C)		
OTHERS	COOLING	Internal fan cooling		
	DIMENSION	504*211*83.5mm(L*W*H)		
	PACKING	12Kg; 1pcs/12Kg/0.86CUFT		
		mentioned are measured at 230VAC output,48VDC input (ERG-5000),380VDC input(ERG-5000H),rated input		
2.It achieves max input power up to 6000W, auto derating to rated power by ambient temperature increasing, OTP occurs when the in			ature increasing , OTP occurs when the internal	
temperature exceeds the limit.				
3.Grid Fault:Includes AC output over voltage protection and under voltage protection.				
		rances are calculated based on MAX input current and MAX input voltage. Tolerances may increase during high and low ambient		
	temperature operation. 5 Guidance of additional filter	tter please refer to user manual for more detail		
 5.Guidance of additional filter, please refer to user manual for more detail. 6.The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mo a 900mm*1300mm metal plate with 2mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 			All the EMC tests are been executed by mounting the unit on	
			-	
			s available on http://www.meanwell.com)	
	Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			







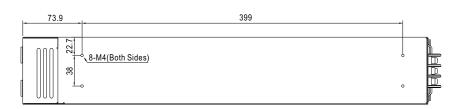


Case No. 223F

Unit:mm

■ Mechanical Specification

© ERG-5000 series





※ JK1 Pin No. Assignment:

/*(0 1111 1111	, v.			
Pin No.	Function	n Description		
1,9	CANH	Data line used in CANBus interface		
2,10	CANL	Data line used in CANBus interface		
3,11	NC	Retain for future use		
4,12	FG	Reference ground for CANBus interface		
5,6,7,8,13 14,15,16	NC	Not use		

For CANBus interface address setting, please refer to the user manual for more details

※ LED1~4 Status Indicators

LED	Description	
● LED OFF	No AC utility connected	
Steady Green	Normal operating	
* Flashing Green	Abnormal status (OTP, Grid Fault)	
Steady Orange	Standby mode	
* Flashing Orange	The channel in communication error	
Steady Red	Input UVP	
* Flashing Red	Input OVP	

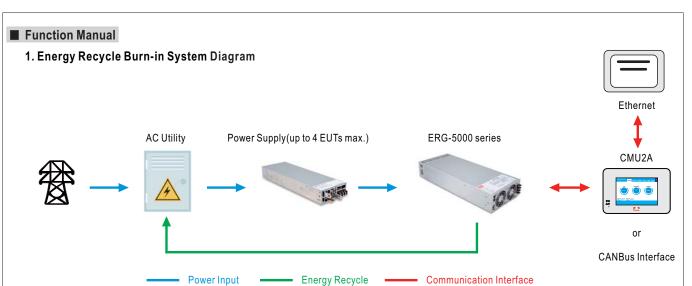
※ TB1 Pin No. Assignment:

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	Pin No.	Function	Description	Diagram	Maximum mounting torque
	1	L	AC/L	1 2 3	
	2	N	AC/N		8Kgf-cm
	3	FG≐	Protective earthing		

DC Input Pin No. Assignment: PRO-TEN 5.7mm NEWSOK PCB mount assembly or equivalent

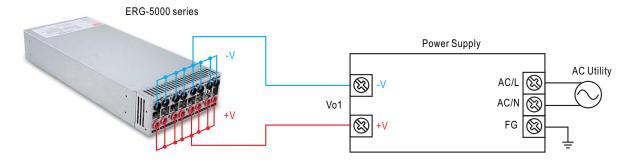
	A Do input in No. Assignment . I No-TEN 3.711111 NEWSON FOR mount assembly of equivalent				
	Pin No.	Function	Description	Mating Housing	
	1~8	1~8 +V Positive end of DC input CH1: PIN1 & 2, CH2: PIN3 & 4, CH3: PIN5 & 6, CH4: PIN7 & 8		PRO-TEN 5.7mm NEWSOK SURLOK PIN or equivalent	
9~16 -V °		-V	Negative end of DC input CH1: PIN9 & 10, CH2: PIN11 & 12, CH3: PIN13 & 14, CH4: PIN15 & 16	PRO-TEN 5.7mm NEWSOK SURLOK PIN or equivalent	



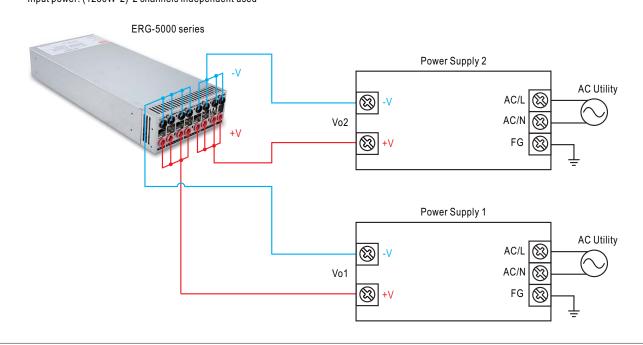


2. Front Panel Connection Diagram

Note: Select suitable wires for connection between the power supply(EUTs) and the ERG-5000 series to reduce line loss and increase energy recycling ratio. (1)4 channels in parallel

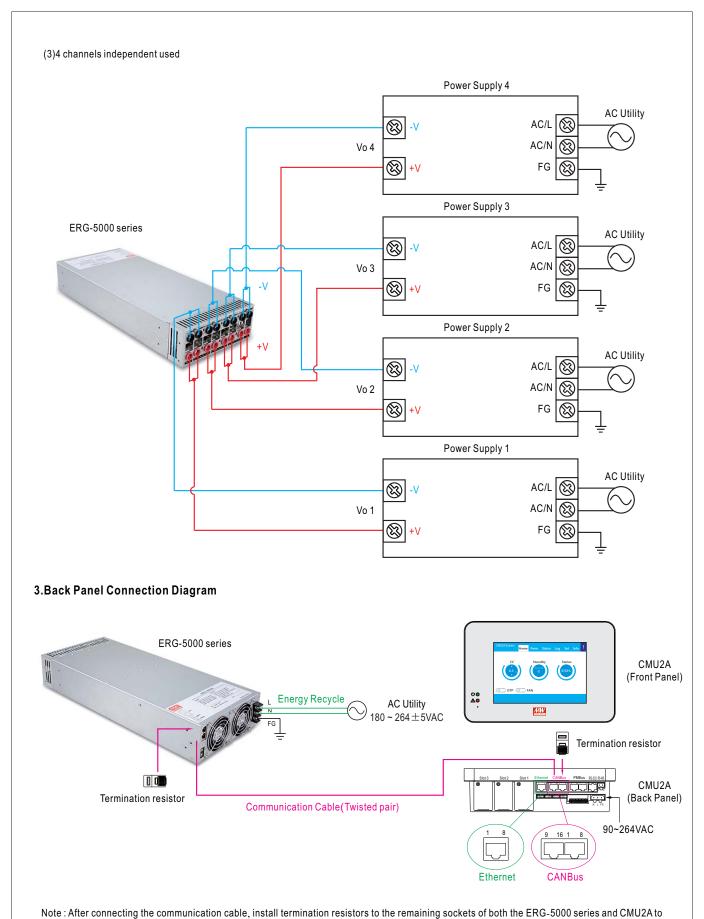


(2)2 channels independent used Input power: (1250W*2)*2 channels independent used





prevent signal reflections.



■ Accessory List

