

Наличие и актуальные цены на

DRS-480-24CAN

https://www.mean-

well.ru/store/DRS-480-24CAN/

























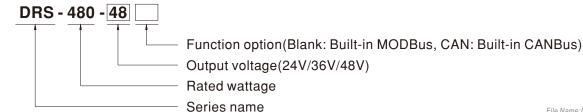
Features

- Universal input 90~305VAC (277VAC available)
- · All-in-one function with Power supply, DC-UPS, battery charger and status monitoring in ONE compact unit
- Signal and alarms design meet UL2524,NFPA 1221,BS EN/EN54-4
 Alarm system and GB17945 requirement, with adjustable parameters configurable • Uninterruptible DC-UPS system, by communication interface
- Form C relay contacts and LED indicators for AC Fail, Battery Low, Charger Fail, and DC-OK
- Load-dependent high speed battery charging
- Built-in MODBus or CANBus protocol
- Protections: Short circuit / Overload / Over voltage / Over temperature(auto derating) / Battery reverse polarity (No damage) / Battery cut off
- Battery low protection / Battery reverse polarity protection
- -30 ~ +70°C wide operating temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Charging curve can be set with SBP-001(only for CANBus model) $(Smart\ programmer\ sold\ separately,\ please\ refer\ to:\ \underline{https://www.meanwell.com/webapp/product/search.aspx?prod=SBP-001}\,)$
- 20~100% charging current adjustable by VR
- 2 or 3-stage selectable by DIP S.W
- · Suitable for lead acid and lithium-ion batteries
- 3 years warranty

Description

DRS-480 is a 480W AC/DC DIN rail type security power supply series. In addition to the primary output, there is an additional charger circuit that will automatically adjust charge current depending on the primary output current. DRS-480 accepts the universal input between 90VAC and 305VAC, and supports output 24VDC, 36VDC, and 48VDC nominal systems. With high efficiency up to 93.5%, it can operate with free air convection cooling under -30°C through 70°C ambient temperature. In addition to the key protection features such as overload protection, over voltage protection, battery low voltage disconnect, and battery reverse polarity protection, the DRS-480 also provides Form-C contacts and LED indicator alarm signals for AC-fail, battery low, charger fail, and DC-OK to allow easy integration into security systems that comply with local alarm codes.

Model Encoding



Applications

- Public safety battery back-up (Red box)
- Security system
- · Emergency lighting system
- battery detection system
- · Central monitoring system
- Industrial automation

GTIN CODE

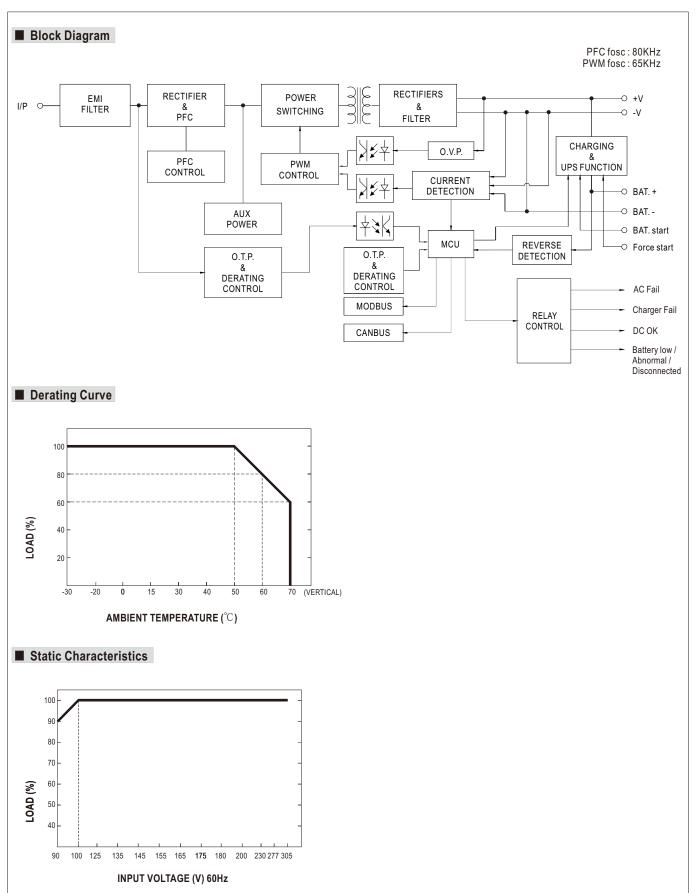
MW Search: https://www.meanwell.com/serviceGTIN.aspx



SPECIFICATION

			DRS-480-24 ☐ = Blank, CAN	DI	RS-480-36 🗆		DRS-480-48□		
	OUTPUT V	OLTAGE Note.2	24V	36	V		48V		
		RENT RANGE	0 ~ 20A	0 ^	~ 13.3A		0 ~ 10A		
	BATTERY (URRENT (CC)(max.)	15.4A	10).2A		7.7A		
	RECOMME	NDED BATTERY	20 ~ 200AH	20 ~ 200AH					
		(AMP HOURS)Note.3		ombined power on all Channels must not exceed 480W, load has priority. 550W peak capability within					
ОИТРИТ		IPUT POWER Note.4 NOISE (max.) Note.5			not exceed 480 0mVp-p	DW, load has priorit	480mVp-p		
		OLERANCE Note.6			1.0%		±1.0%		
	LINE REGI		±0.5%		0.5%		±1.0% ±0.5%		
	LOAD REG		±0.5%		0.5%		±0.5%		
	SETUP RIS		2400ms, 1000ms/230VA		ms/115VAC at ful	Lload			
	HOLD UP			s/115VAC at full load					
	VOLTAGE		90 ~ 305VAC 127 ~	431VDC					
	FREQUEN	CY RANGE	47 ~ 63Hz						
NDUT	POWER FA	CTOR (Typ.)	PF>0.95/230VAC F	PF>0.98/115VAC at fu	Il load				
INPUT	EFFICIENC	Y (Typ.)	92.5%	93.	.5%		93.5%		
	AC CURRE		5.4A/115VAC 2.7A/	230VAC					
	INRUSH C	JRRENT (Typ.)	COLD START 30A/115V	/AC 60A/230VA	С				
	SHORT CI	RCUIT	Protection type: Constar	nt current limiting, pow	ver will shutdown	after 5 sec, re-power o	n to recover.		
	OVERLOA	D	105 ~ 135% rated output	•					
			Protection type: Constar		•	age after 5 sec.			
PROTECTION	OVER TEN	IPERATURE	Automatically drop load Protection type: Shut do			ofter temperature acce	down		
RUIECIIUN			Load main output: 32.4 ~ 3		rer automatically a ad main output : 48.		Load main output : 64.8 ~ 74.5V		
	OVER VOL	TAGE	Protection type : Shut do		· ·		20au main output : 04.0 ~ 74.0V		
_	BATTERY	CUT OFF	20.9±0.5V		.3±0.7V		41.8±1V		
		POLARITY	By internal MOSFET, no			ault condition is remove	· ·		
		-	•	•			C, 132~187VAC of 220VAC.		
		AC FAIL	Relay contact output, Of	N:AC OK;OFF:AC F	Fail ; max. rating :	30Vdc/1A			
	FORM-C	CHARGER FAIL	Relay contact output, Of						
	RELAY	DC OK		gnals normal DC output and activates when output voltage > 90% rated value.					
		BATTERY LOW/		elay contact output, ON: DC OK; OFF: DC Fail; max. rating: 30Vdc/1A					
EUNCTION		ABNORMAL/					Rattery low voltage: < 44V ± 0.5V		
FUNCTION	DATTEDV	DISCONNECTED	Battery low voltage : < 22V ± 0.3V Battery low voltage : < 33V ± 0.4V Battery low voltage : < 44V ± 0.5V Restart system directly from battery and does not require AC power						
	DC-UPS		UPS switch to battery power within 10ms of AC failure						
	ADJUSTABLE CHARGING CURRENT								
	BATTERY TEMPERATURE		20% ~ 100% charging current adjustable by VR						
	COMPENSATION		The system can change the battery charging voltage by detecting the temperature (Please refer to page 9~10 for more details).						
	WORKING TEMP.		-30 ~ +70°C (Refer to "D	-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY		20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing						
ENVIRONMENT	TEMP. COEFFICIENT		±0.03%°C (0 ~ 50°C) on Load output						
	VIBRATIO		10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
	OPERATING ALTITUDE Note.8			III; According to Dekra BS EN/EN62368-1; altitude up to 2000 meters					
		TAGE CATEGORY							
	SAFETY STANDARDS		UL62368-1, Dekra BS EN/EN62368-1, RCM AS/NZS 62368.1, EAC TP TC 004 approved						
	WITHETAN	-				EAC IP IC 004 approv	ved		
		ID VOLTAGE	I/P-O/P: 4KVAC I/P-F	G: 2KVAC O/P-FG:	1.5KVAC	EAC IP IC 004 approv	ved		
		-	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG	G: 2KVAC O/P-FG: : 100M Ohms/500VD0	1.5KVAC		ved		
		ID VOLTAGE	I/P-O/P: 4KVAC I/P-F	G: 2KVAC O/P-FG: : 100M Ohms/500VD0 Standard	1.5KVAC C/25°C / 70%RH	Test Level / Note Class B	ved		
		ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter	G: 2KVAC O/P-FG: : 100M Ohms/500VD0	1.5KVAC C/25°C / 70%RH (CISPR32)	Test Level / Note	ved		
	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted	G: 2KVAC O/P-FG: : 100M Ohms/500VDC Standard BS EN/EN55032	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32)	Test Level / Note Class B	ved		
SAFETY &	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated	G: 2KVAC O/P-FG: : 100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN55032	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2	Test Level / Note Class B Class B	ved		
-	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- BS EN/EN61000-	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) 3-2 3-2	Test Level / Note Class B Class B	ved		
EMC	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- BS EN/EN61000-	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) 3-2 3-2	Test Level / Note Class B Class B	ved		
EMC	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/EN55035 , BS EN/EN55035	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 61000-6-2(BS EN/E	Test Level / Note Class B Class B N50082-2) Test Level / Note	2, 4KV contact; criteria A		
EMC	ISOLATIO	ID VOLTAGE N RESISTANCE	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 51000-6-2(BS EN/E	Test Level / Note Class B Class B N50082-2) Test Level / Note	2, 4KV contact; criteria A		
EMC	ISOLATIO	ID VOLTAGE N RESISTANCE SION	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD	G: 2KVAC O/P-FG: : 100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN65032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 51000-6-2(BS EN/E	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 2KV; criteri	2, 4KV contact; criteria A eria A a A		
EMC	EMC EMIS	ID VOLTAGE N RESISTANCE SION	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated	G: 2KVAC O/P-FG: : 100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000-	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 51000-6-2(BS EN/E	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 2KV; criteri	2, 4KV contact; criteria A eria A a A		
EMC	EMC EMIS	ID VOLTAGE N RESISTANCE SION	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000-	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 1KV/Line-Li Level 3, 10V; criteri	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A		
EMC	EMC EMIS	ID VOLTAGE N RESISTANCE SION	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge	G: 2KVAC O/P-FG: :100M Ohms/500VDC	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 10V/m; critr Level 3, 2KV; criteri Level 3, 1KV/Line-Li	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A		
EMC	EMC EMIS EMC IMMU	ID VOLTAGE N RESISTANCE SION NITY	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted	G: 2KVAC O/P-FG: 100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000-BS EN/ENGIN EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 1KV/Line-Li Level 3, 10V; criteri	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A		
EMC	EMC EMIS EMC IMMU	ID VOLTAGE N RESISTANCE SION	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- BS EN/EN61000-	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; critr Level 3, 1KV/Line-Li Level 3, 10V; criteri Level 4, 30A/m; critr	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A		
EMC Note.10)	EMC EMIS EMC IMMU FIRE DETIFIER ALA	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000-	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; critr Level 3, 1KV/Line-Li Level 3, 10V; criteri Level 4, 30A/m; critr	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A		
EMC Note.10)	EMC EMIS EMC IMMU FIRE DETIFIRE ALA MTBF DIMENSIO	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telcc 110*125.2*150.7mm (W	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000-	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; critr Level 3, 1KV/Line-Li Level 3, 10V; criteri Level 4, 30A/m; critr	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A		
EMC Note.10)	EMC EMIS EMC IMMU FIRE DETIFIRE ALA MTBF DIMENSIO PACKING	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM N	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- BS EN/EN61000- EN54-4 Ordia SR-332 (Bellcore* *H*D)	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 51000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 1KV/Line-Li Level 3, 10V; criteri Level 4, 30A/m; criteri Level 4, 30A/m; criteri	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A		
EMC Note.10)	EMC EMIS EMC IMMU FIRE DET: FIRE ALA MTBF DIMENSIO PACKING 1. All para 2. Variable	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM meters NOT special with charger voltage	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measuge when battery is conne	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- EN54-4 ordia SR-332 (Bellcore "H*D) 2CUFT red at 230VAC input, cted.	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 81000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8 e); 74.5K hrs m	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 10V/criteri Level 3, 10V; criteri Level 4, 30A/m; crit	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C)		
EMC Note.10)	EMC EMIS EMC IMMU FIRE DETIFIRE ALA MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM Meters NOT special with charger voltage Wean Well's suggest	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu ye when battery is connected range. Please consulted	G: 2KVAC O/P-FG: 100M Ohms/500VD0 Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN61000- CN54-4 ordia SR-332 (Bellcore**H*D) 2CUFT red at 230VAC input, cted. It your battery manufaters	1.5KVAC C/25°C / 70%RH (CISPR32) (CISPR32) -3-2 -3-2 61000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8 e); 74.5K hrs m	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 10V/criteri Level 3, 10V; criteri Level 4, 30A/m; criteri Level 4, 30A/m; criteri Level 4, 30A/m; criteri	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) erature. ximum charging current limitation.		
EMC (Note.10)	EMC EMIS EMC IMMU FIRE DETIFIRE ALA MTBF DIMENSIO PACKING 1. All para 2. Variable 3. This is 4. If load of	ID VOLTAGE N RESISTANCE SION NITY ECTION AND RM SYSTEM N meters NOT special with charger voltage the with	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/E 556.6K hrs min. Telco 110*125.2*150.7mm (W) 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measu use when battery is connected range. Please consule system will prioritize load	G: 2KVAC O/P-FG: :100M Ohms/500VDC Standard BS EN/EN55032 BS EN/EN61000- BS EN/EN61000- EN61204-3, BS EN/EN6 Standard BS EN/EN61000- EN54-4 Standard	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 61000-6-2(BS EN/E -4-2 -4-3 -4-4 -4-5 -4-6 -4-8 e); 74.5K hrs m	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 1KV/Line-Li Level 3, 10V; criteri Level 4, 30A/m; criteri Level 4, 30A/m; criteri Level 4, and the battery checked a consequence of the battery checked and the battery checked as B	2, 4KV contact; criteria A eria A a A ne ;Level 3, 2KV/Line-Line-Chassis ;criteria a A eria A = (25°C) erature. ximum charging current limitation.		
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EMC Note.10)	EMC EMIS EMC IMMU FIRE DETIFIRE ALA MTBF DIMENSIO 1. All para 2. Variable 3. This is 4. If load of 5. Ripple 6. Toleran 7. Length 8. The am 9. Installat In case 10. The p EMC di	NITY ECTION AND RM SYSTEM Meters NOT special with charger voltage with charger voltage with charger voltage current increases, the consistency of setup time is me bient temperature of ion clearances: 40 the adjacent device ower supply is cons rectives. For guidar	I/P-O/P: 4KVAC I/P-FG I/P-O/P, I/P-FG, O/P-FG Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/I Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/I 10*125.2*150.7mm (W) 1.65Kg; 6pcs/ 11Kg / 1.4 Illy mentioned are measured at 20MHz of bandwidt tolerance, line regulation saured at cold first start, rerating of 3.5°C /1000m vomm on top, 20mm on the is a heat source, 15cm	G: 2KVAC O/P-FG: 100M Ohms/500VD0 Standard BS EN/EN55032 BS EN/EN61000- BS EN/	1.5KVAC C/25°C/70%RH (CISPR32) (CISPR32) -3-2 -3-2 -3-2 -3-0 -4-3 -4-4 -4-5 -4-6 -4-8 -2 -4-8 -3 -4-4 -4-5 -4-6 -4-8 -3 -4-4 -4-5 -4-6 -4-8 -3 -4-4 -4-5 -4-6 -4-8 -4-8 -4-8 -4-8 -4-8 -4-8 -4-1 -4-8 -4-1 -4-8 -4-1 -4-8 -4-1 -4-1	Test Level / Note Class B Class B N50082-2) Test Level / Note Level 3, 8KV air; Level Level 3, 10V/m; criteri Level 3, 10V ; criteri Level 3, 10V; criteri Level 4, 30A/m; criteri Level 4, 30A/m; criteri Tevel 4, 30A/m; criteri Level 5, 10X/Lines Lines Level Level 3, 10V criteri Level 4, 30A/m; criteri Level 5, 10X criteri	2, 4KV contact; criteria A eria A a A ne ; Level 3, 2KV/Line-Line-Chassis ; criteria a A eria A eria A F (25°C) erature. ximum charging current limitation. arging current. & 47 µ F parallel capacitor. the setup time. perature altitude higher than 2000m(6500) when loaded permanently with full power nt must be re-confirmed that it still meets		







■ Function manual

1. Alarm signals

- (1) Alarm Signal is sent out through "AC fail " & " Battery low " & " Charger fail "pins via relay contact.
- (2) An external voltage source is required for this function. The maximum applied voltage is 30Vdc and the maximum sink current is 1A. Please refer to Fig 1.2.
- (3) Table 1.1 explains the alarm function built in the power supply

INPUT	AC fail		DC OK		Battery low/Abnormal /Disconnected		Charger fail	
	2-3	1-3	5-6	4-6	8-9	7-9	11-12	10-12
AC only	closed	open	closed	open	open	closed		
AC + BAT.	closed	open	closed	open	closed	open		
BAT. only	open	closed	closed	open	closed	open		
Low BAT. (<30% capacity)					open	closed		
Charger Fail							open	closed

Table 1.1 Explanation of alarm signal

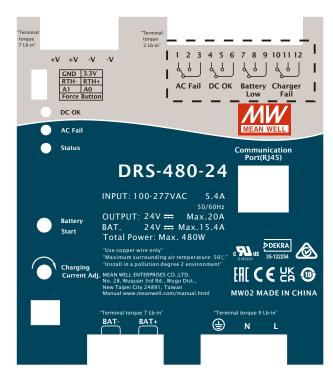


Fig 1.1 alarm signal Terminals

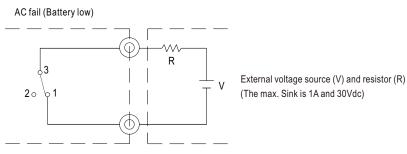
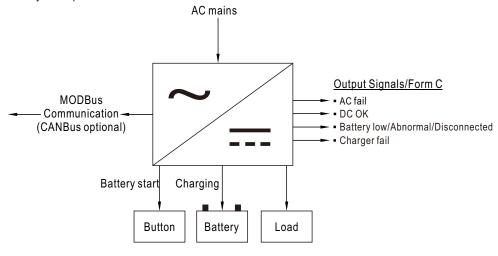


Fig 1.2 Internal circuit of AC fail (Battery low), via relay contact



2.DC-UPS function

When AC mains drops below:79~89VAC of 120VAC,132~187VAC of 220VAC, UPS function will activate and power source switch battery backup.

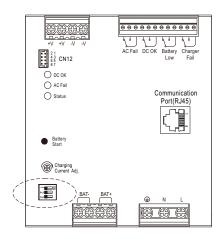


3. Charger setting

3.1.1 2 or 3-stage selectable by DIP S.W

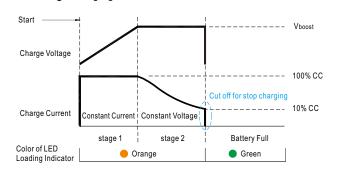
※ This series provides 2 or 3 stage charging curve.

	055 0 4 (0 6 10 001 0 4
1	OFF: 3 stage(Default), ON: 2 stage
2	Charging ourse adjustable sace heless
3	Charging curve adjustable:see below



3.1.2 Charging curve can be adjustable by DIP S.W

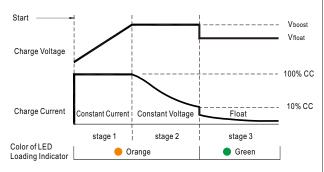
© 2 stage charging curve



State	DRS-480-24	DRS-480-36 🗆	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).

Default 3 stage charging curve



State	DRS-480-24	DRS-480-36□	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V
Vfloat	27.6V	41.4V	55.2V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).

** The default curve is programmable, whereas other pre-defined curves can be activated by the means of the DIP S.W; please refer to the table below and the Mechanical Specification.



© Embedded 2 stage charging curve

position	24V model		
3	Description	CC(default)	Vboost
OFF	Default, programmable		28.8
OFF	Pre-defined, gel batter	15 10	28.0
ON	Pre-defined, flooded battery	15.4A	28.4
ON	Pre-defined, AGM battery,LiFe04		29.2
SW position 36V model			
3	Description	CC(default)	Vboost
OFF	Default, programmable		43.2
OFF	Pre-defined, gel battery	10.24	42
ON	Pre-defined, flooded battery	10.2A	42.6
ON	Pre-defined, AGM battery,LiFe04		43.8
position	48V model		
3	Description	CC(default)	Vboost
OFF	Default, programmable		57.6
OFF	Pre-defined, gel battery	771	56.0
ON	Pre-defined, flooded battery	'./A	56.8
ON	Pre-defined, AGM battery, LiFe04		58.4
	3 OFF OFF ON ON position 3 OFF ON ON position 3 OFF ON ON	3 Description OFF Default, programmable OFF Pre-defined, gel batter ON Pre-defined, flooded battery ON Pre-defined, AGM battery,LiFe04 position 3 Description OFF Default, programmable OFF Pre-defined, gel battery ON Pre-defined, Ilooded battery ON Pre-defined, AGM battery,LiFe04 position 48V model 3 Description OFF Default, programmable OFF Pre-defined, gel battery ON Pre-defined, gel battery OFF Default, programmable OFF Pre-defined, gel battery ON Pre-defined, flooded battery	3 Description CC(default) OFF Default, programmable OFF Pre-defined, gel batter ON Pre-defined, flooded battery ON Pre-defined, AGM battery, LiFe04 position 36V model 3 Description CC(default) OFF Default, programmable OFF Pre-defined, gel battery ON Pre-defined, flooded battery ON Pre-defined, AGM battery, LiFe04 position 48V model 3 Description CC(default) OFF Default, programmable OFF Pre-defined, AGM battery, LiFe04 position CC(default) OFF Default, programmable OFF Pre-defined, gel battery ON Pre-defined, gel battery ON Pre-defined, flooded battery ON Pre-defined, flooded battery ON Pre-defined, flooded battery ON Pre-defined, flooded battery

© Embedded 3 stage charging curve

DIP SW	position	24V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		28.8	27.6			
ON	OFF	Pre-defined, gel batter	15.4A	28.0	27.2			
OFF	ON	Pre-defined, flooded battery	15.4A	28.4	26.8			
ON	ON	Pre-defined, AGM battery,LiFe04		29.2	28.0			
DIP SW	position	36V mo	36V model					
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		43.2	41.4			
ON	OFF	Pre-defined, gel battery	10.2A	42	40.8			
OFF	ON	Pre-defined, flooded battery	10.2A	42.6	40.2			
ON	ON	Pre-defined, AGM battery,LiFe04		43.8	42.0			
DIP SW	position	48V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		57.6	55.2			
ON	OFF	Pre-defined, gel battery	7.7A	56.0	54.4			
OFF	ON	Pre-defined, flooded battery	1.1A	56.8	53.6			
ON	ON	Pre-defined, AGM battery,LiFe04		58.4	56.0			

3.2 SBP-001 can adjust the charging curves (Only CANBus Model)

2 stage charging curve (programable)

DIP SW	position	24V model				
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	15.4A	28.8		
DIP SW position		36V model	36V model			
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	10.2A	43.2		
DIP SW	position	48V model	48V model			
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	7.7A	57.6		

© 3 stage charging curve (programable)

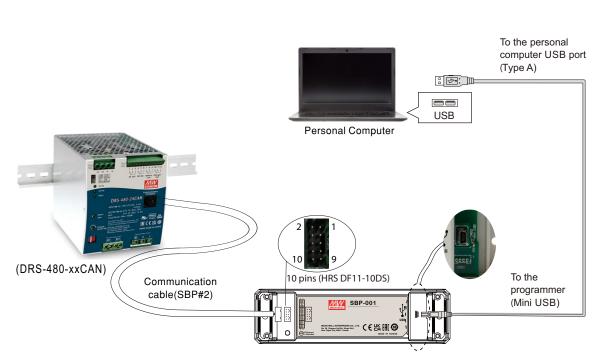
Stage sharging sarve (programable)							
DIP SW	position	24V model					
2	3	Description	CC(default)	Vboost	Vfloat		
OFF	OFF	Default, programmable	15.4A	28.8	27.6		
DIP SW	position	36V model					
2	3	Description	CC(default)	Vboost	Vfloat		
OFF	OFF	Default, programmable	10.2A	43.2	41.4		
DIP SW	position	48V mo	del				
2	3	Description	CC(default)	Vboost	Vfloat		
OFF	OFF	Default, programmable	7.7A	57.6	55.2		

SBP-001 is a programmer, particularly for MEAN WELL's various programmable battery charger models to program the parameters of charging curves, such as the <u>Constant current (CC)</u>, <u>tapper current(TC)</u>, <u>Constant voltage (CV)</u>, <u>float voltage (FV)</u> and so on, to accommodate the diversified battery specification in industry. With the design accounting for simplicity and convenience, users can easily configure MEAN WELL's programmable battery chargers with SBP-001 programmer and the computer; all of the setups are able to be finished easily by the means of the specific software.

Note:(1) Tapper current(TC) default is 10%, can be fine tuned from 2% to 30% by SBP-001 with computer or CANBus Interface.

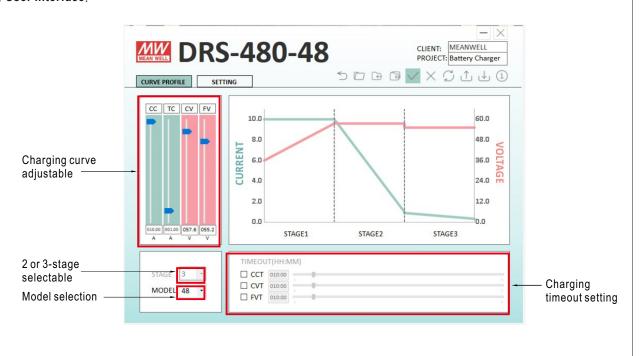
- (2) The SBP-001 only supports CANBus version(DRS-480-xxCAN).
- (3) Please contact MEAN WELL for more details.





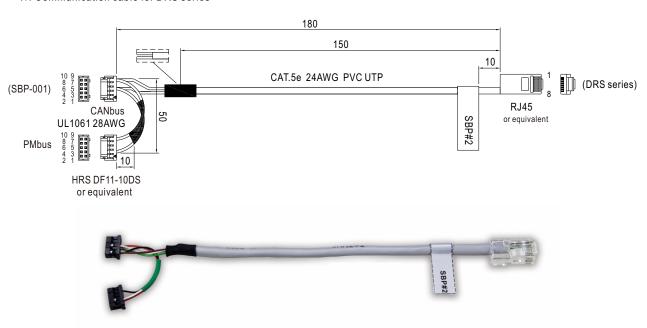
Smart programmer (Sold separately)

X User Interface:





※ Communication cable for DRS series



DRS series pin assigment:

Connector	Pin Assigment									
SBP-001 10pin connector (Connector part No.:HRS DF11-10DS)	1	2	3	4	5 (CANH)	6 (CANL)	7	8	9	10 (GND)
DRS-480 RJ45 Communication port					6	7				8
Wire color					Green	White/Brown				Brown

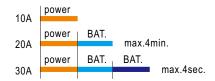
3.3 Communication interface

Charging parameters can be modified by MODBus (DRS-480-xx) or CANBus(DRS-480-xxCAN) communication commands. For details, please refer to: http://www.meanwell.com/manual.html

4. Power Boost Mode

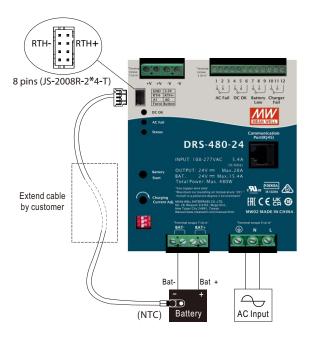
The maximum current on the load output is the 2 times the rated current for 4 minutes max. and 3 times the rated current for 4 seconds max. For example (48V model):

Output load





5.Battery temperature compensation



- © To exploit the temperature compensation function, please attach the temperature sensor(NTC) which is enclosed with DRS-480, to the battery or the battery's vicinity.
- © DRS-480 is able to work normally without the temperature sensor(NTC).
- 5.1 The compensation parameters included Disable, -3, -4 and -5mV/ °C /Cell .It can be modified by communication command of CANBus, MODBus. The factory default value is -3mV/ °C /Cell.
- 5.2 It will be regarded as normal temperature and will not be compensated when temperature compensation resistance is not connected; And temperature compensation will only compensate lead-acid battery, not lithium iron battery.
- 5.3 The range of temperature compensation is 0-40°C , normal temperature 25°C is the central value, no compensation; When the temperature is < 0 °C or > 40 °C , the current temperature compensation value will be limited to 0 °C or 40°C .

24V model as an example

Assuming that $V_{\text{boost}} = 28.8\text{V}$, temperature compensation set to -5mV/°C/Cell by communication, TEMP_bat is NTC temperature detection.

The compensating voltage can be calculated by the following equation:

 $V_{\tiny boost_comp}$ =28.8V-5mV*(TEMP_bat -25 $^{\circ}$ C)*12CeII

Max. compensation voltage:

 $V_{boost.H}$ =28.8V-5mV*(0°C-25°C)*12CeII=30.3V

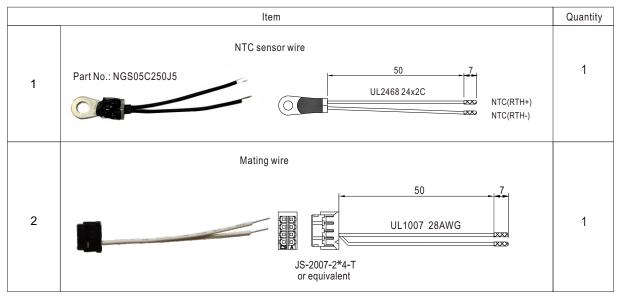
Min. compensation voltage:

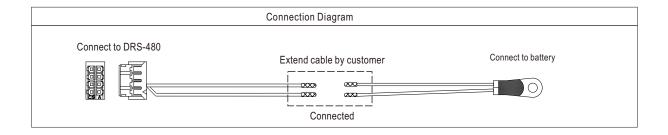
 $V_{\text{boost_L}}$ =28.8V-5mV*(40°C-25°C)*12CeII=27.9V



5.4 Accessory List

※ NTC Sensor and mating wire along with DRS-480 (Standard accessory)







6.LED alarm

Fu	unction	Description	Output of alarm			
		DC fail	OFF O			
DC OK		DC OK	Green •			
A O f - :1		AC fail	Red •			
AC fail		AC OK	OFF O			
	Charging	Float	Green			
	status	Charging: CC/CV	Orange			
		Discharging	Orange: 1 Blink/Pause			
		Charger fail	Red : 1 Blink/Pause 🔆 📗			
Status		Battery overvoltage / Battery reverse polarity	Red : 2 Blink/Pause			
	System	Battery low / No Battery	Red: 3 Blink/Pause 🔆 👊			
	diagnosis	Battery discharge peak power timeout.	Red : 4 Blink/Pause + J			
		Over load / short	Red : 5 Blink/Pause +			
		Over temperature	Red: 6 Blink/Pause +			
		Timeout	Red: 7 Blink/Pause 🔆 🎵 👭			



■ Suggested Application

1.Backup connection for AC interruption

(1) Please refer to Fig2.1 for suggested connection.

The power supply charges the battery and provides energy to the load at the same time when AC mains is OK. The battery starts to supply power to the load when AC mains fails.

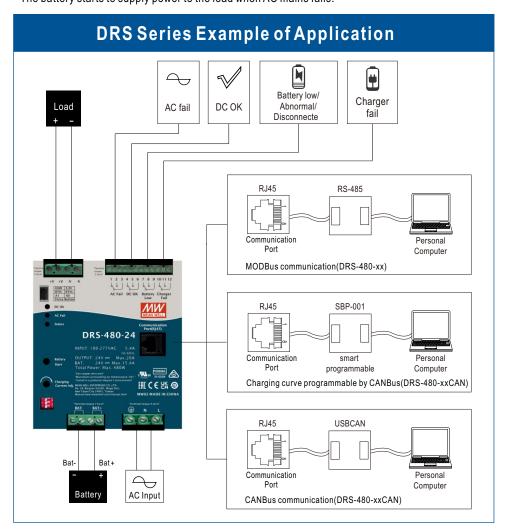


Fig 2.1 Suggested system connection

(2) Backup time

Backup time depends on:

- from the load current
- X from the size of the batteries.

The following table is an example (battery capacity at C10 discharge rate).

Battery Load	10AH	20AH	50AH	100AH	200AH
1.5A	350min	13h	33h	67h	133h
3A	125min	350min	17h	33h	67h
5A	60min	180min	600min	20h	40h
7.5A	35min	90min	350min	13h	27h
10A	23min	60min	240min	10h	20h
15A	13min	35min	125min	350min	13h

Unit:mm



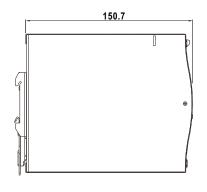
■ Mechanical Specification

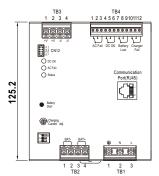
110

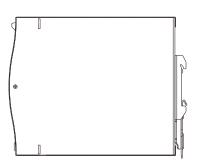
Case No. 214C

Terminal Pin No. Assignment (TB4)

Pin No.	Assignment
1,2,3	AC fail
4,5,6	DC OK
7,8,9	Battery low/ Abnormal/ Disconnected
10,11,12	Charger fail







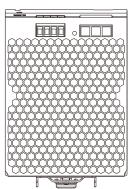
Terminal Pin No. Assignment (TB2)

Terminal Pin No. Assignment (TB3)

Pin No. Assignment

1,2 3,4

Pin No.	Assignment
1,2	BAT
3./	RΔT +



Terminal Pin No. Assignment (TB1)

Pin No.	Assignment	
1	FG 🖶	
2	AC/N	
3	AC/L	

Force button Connector (CN12): JS-2008R-4*2-T or equivalent

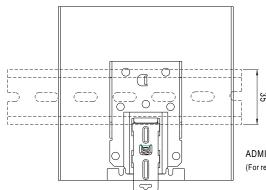
Pin No.	Assignment
1	3.3V
2	GND
3	RTH+
4	RTH-
5	A0
6	A1
7,8	Open: Normal Short: Force start

Terminal Pin No. Assignment (RJ45)

Pin No.	Function	Description
1,2,3,4,5	NC	Retain for future use.
6	D-/DB	For MODBus model:Serial Date used in the MODBus interface.
0	CANH	For CANBus model:Date line used in the CANBus interface.
7	D+/DA	For MODBus model:Serial Clock used in the MODBus interface.
'	CANL	For CANBus model:Date line used in the CANBus interface.
8	GND-AUX	Auxillary voltage output GND. The signal return is isolated from the output terminals(+V & -V).



■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN rail:TS35/7.5 OR TS35/15 (For reference only. Not included with unit.)

Back View

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html