







Front



Back



















■ Features

- Charger for lead-acid batteries (flooded, Gel and AGM) and li-ion batteries (lithium iron and lithium manganese)
- Built-in 3 stage programmable charging curve
- · Universal AC input / Full range
- · Built-in active PFC function
- · Fanless design, cooling by free air convection
- Built-in temperature compensation function
- Protection: Short circuit / Over voltage / Over temperature / Battery under voltage / Battery over voltage / Battery reverse polarity protection
- 3 years warranty

Applications

- · Radio system backup solution
- · Electric scooter charger
- Surveillance system

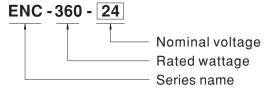
■ GTIN CODE

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

Description

ENC-360 is a single output 360W AC/DC desktop type charger with 3 stage charging curve. In addition to the embedded pre-defined charging curves, the default curve is programmable and thus able to accommodate different types of batteries, such as lead-acid batteries (gel, flooded and AGM) and li-ion batteries (lithium iron and lithium manganese). With the rugged mechanical design along with the high efficiency circuitry, ENC-360 operates for the ambient temperature range -30~+70°C under free air convection.

■ Model Encoding





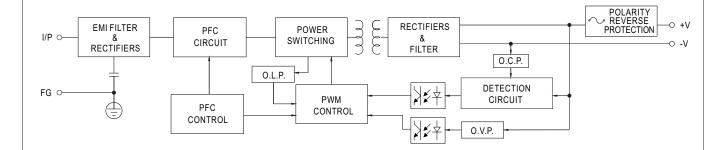
SPECIFICATION

		ENC-360-12	ENC-360-24	ENC-360-48	
	BOOST CHARGE VOLTAGE(Vfloat)(default)	14.4V	28.8V	57.6V	
	FLOAT CHARGE VOLTAGE(Vfloat)(default)	13.8V	27.6V	55.2V	
	CHARGE VOLTAGE RANGE Note.3	9 ~ 15V	18 ~ 30V	36 ~ 60V	
	OUTPUT CURRENT(CC) (default)	24A	12A	6A	
OUTPUT	RATED POWER	345.6W	345.6W	345.6W	
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.4	85 ~ 250AH	45 ~ 125AH	25 ~ 65AH	
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA			
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load			
NPUT	EFFICIENCY (Typ.)	91%	93%	94%	
	AC CURRENT (Typ.)	3.8A/115VAC 1.9A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 80A at 230VAC			
	LEAKAGE CURRENT	<3.5mA/240VAC			
	SHORT CIRCUIT Note.6	6 Protection type: Shut down O/P voltage, re-power on to recover			
		15.5 ~ 18.2V	31 ~ 36.5V	62.1 ~ 72.9V	
PROTECTION	OVER VOLTAGE Note.7	Protection type: Shut down and latch off	o/p voltage, re-power on to recover		
	REVERSE POLARITY	By internal fuse			
	OVER TEMPERATURE	Shut down O/P voltage, recovers automat	ically after temperature goes down		
UNCTION	TEMPERATURE COMPENSATION	By NTC			
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
}	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
NVIDONMENT	STORAGE TEMP., HUMIDITY				
ENVIRONMENT	OTOKAGE TEMIL., HOMIDITT	±0.05%/°C (0~50°C)			
l	TEMP COFFEIGIENT	I +0 050/ ľ°C (0 ~ 50°C)			
	TEMP. COEFFICIENT		oh olong V. V. 7 ovoc		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea		12V 2AV/ approved: Moet BS EN/EN62365	
	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B	3SMI CNS14336-1, J62368-1(2020)(Only for	12V,24V) approved; Meet BS EN/EN62368	
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F	SSMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC	12V,24V) approved; Meet BS EN/EN62368	
	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH		
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard	Test Level / Note	
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)	Test Level / Note Class B	
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC	SMI CNS14336-1, J62368-1 (2020) (Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)	Test Level / Note Class B Class B	
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN56032 (CISPR32) / FCC PART15 (CISPR22)	Test Level / Note Class B Class B	
	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker	SSMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3	Test Level / Note Class B Class B	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN56032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V)	Test Level / Note Class B Class B	
MC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN56032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard	Test Level / Note Class B Class B Test Level / Note	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TP TC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN56032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge Conducted	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea Level 2, 3Vrms	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level / Note Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/ Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge Conducted	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line, Level 3, 2KV/Line-Ea Level 2, 3V/ms Level 1, 1A/m	
EMC	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-8	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	
EMC Note 8)	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea Level 2, 3V/ms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	
SAFETY & EMC Note 8)	VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 2G 10min./1cycle, 60min. ea IEC62368-1, UL62368-1, EAC TPTC 004, B I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024, BSMI CNS13438; J5503 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 1178.7K hrs min. Telcordia SR-332 (Betales)	SMI CNS14336-1, J62368-1(2020)(Only for FG:0.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22) BS EN/EN61000-3-2 BS EN/EN61000-3-3 2(H29) (Only for 12V,24V) Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Test Level / Note Class B Class B Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 2, 3V/m Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea Level 2, 3Vrms Level 1, 1A/m >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	

- 3. This is the range when programming Vboost or Vfloat by using SBP-001, the smart battery charging programmer.
- 4. This is MEAN WELL's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on.
- 7. Each model incorporates a MCU-controlled dynamic over voltage protection, which is about 115% of Vboost over Constant Current stage and Constant Voltage stage whereas 115% of Vfloat over Float stage.
- 8. The battery charger is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

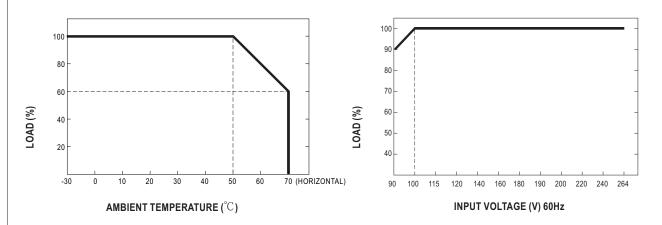


■ Block Diagram



■ Derating Curve

■ Static Characteristics

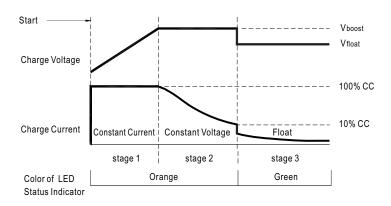




■ Function Manual

1. Charging Curve

- X This series provides a 3 stage charging. The default curve is programmable, whereas other pre-defined curves can be activated by the means of the DIP switch; please refer to the table below and the Mechanical Specification.
- ** To accommodate the parameters of the charging curve, SBP-001, the smart battery charging programmer designed by MEAN WELL, and a personal computer are needed. Please contact MEAN WELL for details.
- O Default 3 stage charging curve



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

Embedded 3 stage charging curve

MODEL	Description	CC(default)	Vboost	Vfloat
	Default, programmable		14.4	13.8
12V	Pre-defined, gel batter	24A	14	13.6
127	Pre-defined, flooded battery	24A	14.2	13.4
	Pre-defined, AGM battery		14.5	13.5
	Default, programmable		28.8	27.6
24V	Pre-defined, gel battery	12A	28	27.2
24 V	Pre-defined, flooded battery	IZA	28.4	26.8
	Pre-defined, AGM battery		29	27
	Default, programmable		57.6	55.2
48V	Pre-defined, gel battery	6A	56	54.4
40 V	Pre-defined, flooded battery	UA	56.8	53.6
	Pre-defined, AGM battery		58	54

2. Front Panel LED Indicators & Corresponding Signal at Function Pins

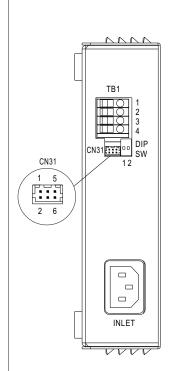
LED	Description
Green	Float (stage 3)
Orange	Charging (stage 1 or stage 2)

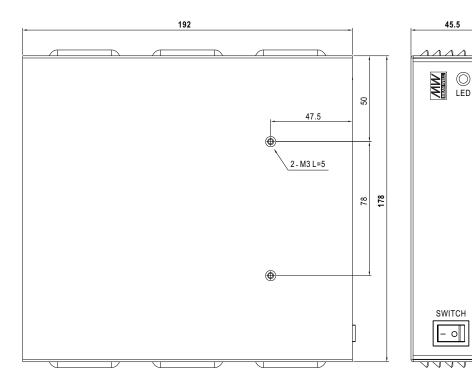


■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

Case No. 252





Terminal Pin No. Assignment (TB1):

Pin No.	Assignment
1,2	+V
3,4	-V

Note: Please use wires with a cross section of $0.5 - 4.0 \text{ mm}^2$ ($12 \sim 20 \text{AWG}$) for connection. Recommended wires strip length is 9 mm and screw torque is 4.0 lb-inch ($0.4 \sim 0.5 \text{Nm}$).

DIP SW:

1	2	Description
ı		Description
OFF	OFF	Default, programmable
ON	OFF	Pre-defined, Gel battery
OFF	ON	Pre-defined, flooded battery
ON	ON	Pre-defined, AGM battery

Connector Pin No. Assignment (CN31): HRS DF11-6DP-2DS or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	Prog- +3.3V		
2	Prog- GND		
3	Prog- RX	HRS DF11-6DS or equivalent	HRS DF11-**SC or equivalent
4	Prog-TX		
5	RTH+		
6	RTH-		



■ Accessory List

	Quantity	
1	NTC sensor wire	1
2	NTC mating wire	1

